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CINEC CAMPUS
Beyond A Graduate

Faculty of Health Sciences

Bachelor of Sciences Honours in Biomedical Sciences/ Bachelor of Sciences Honours Industrial Pharmaceutical Science/ Bachelor of Sciences Honours Cosmetics Sciences

BMS 1223 - Professional English

Batch - 10

1st year 2nd semester

End Semester SEQ Examination

Date: 19th of May 2026

Time: 09.00 a.m. – 12.00 p.m. (Three hours)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **SIX (06)** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.

Question 01 **(100 marks)**

Read the following passage carefully and answer all the questions that follow

The increasing dominance of data-driven decision-making has fundamentally altered professional practice across disciplines. In contemporary organizations, numerical indicators, performance metrics, and algorithmic assessments are often regarded as objective measures of success. However, this reliance on quantifiable data can obscure contextual realities, particularly when complex human, social, or ethical dimensions are reduced to simplified indicators. While data analytics can enhance precision and efficiency, an uncritical acceptance of numerical outputs risks privileging measurability over meaning.

Furthermore, professional texts produced within data-intensive environments frequently adopt a language of certainty that masks underlying assumptions and methodological limitations. Reports, dashboards, and executive summaries may present findings as definitive, even when the data are incomplete or subject to interpretation. This rhetorical framing can influence decision-makers to overlook ambiguity, thereby reinforcing existing biases rather than challenging them. Consequently, advanced reading competence requires the ability to interrogate not only what is stated but also what is omitted or implied.

Equally significant is the ethical responsibility associated with interpreting and disseminating data-based texts. Professionals who lack critical reading skills may inadvertently perpetuate misleading narratives or inequitable practices. The selective use of data, intentional or otherwise, can legitimize decisions that disadvantage certain groups while appearing neutral and evidence-based. Therefore, the capacity to read analytically, question authority, and recognize the socio-ethical implications of professional discourse is no longer optional but essential in contemporary professional life.

1.1 What central concern does the author raise regarding data-driven decision-making? (20 marks)

1.2 How does the author distinguish between precision and meaning in professional practice? (20 marks)

1.3 In the first paragraph, what does the phrase "privileging measurability over meaning" suggest? (20 marks)

1.4 Explain the function of "rhetorical framing" as described in the second paragraph. (20 marks)

1.5 Why does the author argue that professional texts may "mask underlying assumptions"? (20 marks)

Question 02 **(100 marks)**

Fill in the blanks with the most appropriate discourse marker from the given options.

(meanwhile, otherwise, similarly, in addition, as a result)

2.1 The research team focused on data collection; ..... the analysis framework was being developed by a separate group. (20 marks)

2.2 The safety guidelines must be followed strictly....., the risk of operational failure will increase. (20 marks)

2.3 The first phase of the project required careful planning; .....the implementation stage demanded close coordination. (20 marks)

2.4 The organization introduced a new training program and.....revised its performance evaluation criteria (20 marks)

2.5 The system experienced repeated technical faults and.....customer satisfaction declined significantly. (20 marks)

Question 03 **(100 marks)**

Write the main idea of the following passages.

3.1 Effective time management plays a crucial role in academic success at the undergraduate level. Students are often required to balance lectures, assignments, group work, and personal responsibilities within limited time frames. When time is not planned carefully, even capable students may experience stress and reduced performance. Developing structured study schedules allows learners to prioritize tasks and maintain consistency in their academic efforts. (25 marks)

3.2 Advancements in workplace technology have changed how employees learn and adapt to new professional roles. Many organizations now rely on digital platforms for training, communication, and performance monitoring. While these tools improve access to information, they also require employees to continuously update their skills. As a result, lifelong learning has become a key expectation in modern professional environments. (25 marks)

3.3 Public trust in scientific research depends largely on transparency and ethical conduct. When research methods and findings are clearly communicated, audiences are more likely to accept and apply scientific knowledge. In contrast, unclear reporting or ethical misconduct can damage credibility and limit the usefulness of research outcomes. Therefore, responsible communication is essential in maintaining confidence in scientific work. (25 marks)

3.4 Group projects are widely used in higher education to develop collaboration skills among students. Through teamwork, learners gain experience in sharing responsibilities, resolving conflicts, and communicating ideas effectively. However, unequal participation can reduce the learning benefits if not properly managed. Clear roles and assessment criteria help ensure that group work remains productive and fair (25 marks)

Question 04 **(100 marks)**

Each sentence contains **one or more errors** in tense, voice, or subject–verb agreement. Rewrite the sentence correctly, maintaining the original meaning.

4.1 The reports was submitted by the interns before the manager reviewed it. (25 marks)

4.2 By the time the lecture begins, all students had complete the pre-reading assignments (25 marks)

4.3 The laboratory assistants has been analyzing the samples, and the results is expected tomorrow. (25 marks)

4.4 The auditors discovered that several safety violations is ignored by the company prior to the inspection. (25 marks)

Question 05 **(100 marks)**

5.1 Read the following passage carefully and summarize it in 40–50 words, ensuring that the main ideas are clearly presented in your own words.

Environmental science is an interdisciplinary field that examines the interactions between physical, chemical, and biological components of the Earth's systems. It seeks to understand how natural processes function and how human activities influence environmental stability. Through the integration of scientific methods and empirical research, environmental science addresses critical global issues such as climate variability, ecosystem degradation, pollution control, and the conservation of natural resources. By providing systematic analysis and evidence-based explanations, the discipline supports informed decision-making and long-term environmental planning.

Increasing human population and rapid economic development have placed unprecedented pressure on natural ecosystems. Intensive industrial activity, unsustainable agricultural practices, and excessive consumption of energy and raw materials have contributed to deforestation, biodiversity loss, and declining air and water quality. Scientific studies consistently highlight the urgent need for sustainable development strategies that balance environmental protection with social and economic progress. Adopting environmentally responsible practices is essential to maintain ecological resilience and ensure the availability of natural resources for future generations. (100 marks)

Question 06 **(100 marks)**

Write an argumentative essay on **ONE** of the following topics (300 words).

a. Should practical skills be given more importance than theoretical knowledge in university education?

OR

b. Does the current education system in Sri Lanka prepare students effectively for the job market?

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CINEC CAMPUS
Beyond A Graduate

Faculty of Health Sciences

Bachelor of Science Honours in Biomedical Sciences/ Bachelor of Science Honours in Industrial Pharmaceutical Science/ Bachelor of Science Honours in Cosmetics Sciences

BSM 1253 Academic Writing

1st Year 2nd Semester-10th Batch

End Semester SEQ Examination

Date	: 14th May 2026
Time	: 09.00 a.m. – 12.00 p.m. (Three hours)

QUESTION 01 **(100 marks)**

1.1 Identify **four (04)** key features of academic writing. (20 marks)

1.2 Compare **two (02)** pre-writing strategies in terms of idea generation and organization. (20 marks)

1.3 Describe the importance of correct grammar in an effective academic assignment with an example. (30 marks)

1.4 Outline the main stages of the writing process, explaining how each stage contributes to producing an effective academic assignment. (30 marks)

QUESTION 02 **(100 marks)**

2.1 Summarize the following passage. (Maximum word limit 50) (100 marks)

Recent research has highlighted the complex interactions between climate change and the depletion of the ozone layer. Greenhouse gas emissions, along with ozone-depleting substances such as chlorofluorocarbons (CFCs), continue to damage the stratospheric ozone, leading to increased levels of harmful ultraviolet (UV) radiation reaching the Earth's surface. Elevated UV exposure adversely affects ecosystems, human health, and agricultural productivity, causing issues such as skin cancer, cataracts, and reduced crop yields. International efforts, particularly the Montreal Protocol, have successfully limited the production and release of many ozone-depleting chemicals, resulting in the gradual recovery of the ozone layer. However, ongoing climate change, industrial activities, and emerging pollutants pose persistent challenges. Continuous monitoring, public awareness, and mitigation strategies remain critical to ensure the restoration of the ozone layer, safeguard biodiversity, and minimize the broader environmental and health risks associated with climate-induced ozone depletion.

QUESTION 03 **(100 marks)**

3.1 The following graph shows the information on the reported Estimated Mean daily sodium intake by different population categories.

- 2,300 mg/day is the Tolerable Upper Intake Level (UL) for sodium intake in adults
- 1,500 mg/day is the Adequate Intake (AI) for individuals ages 9 years and older.

Summarize the information by selecting and reporting the main features. Write at least 50 words. (100 marks)

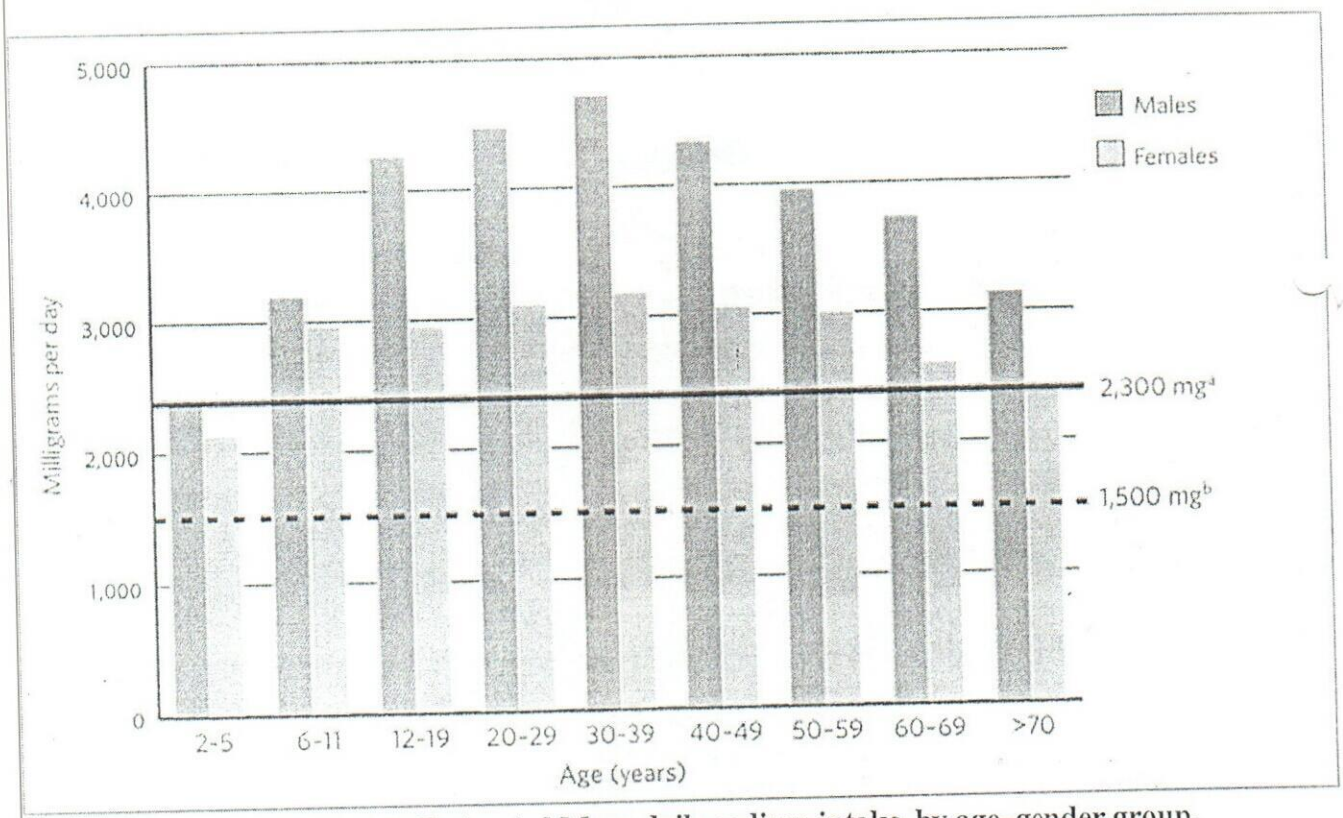


Figure 1: Estimated Mean daily sodium intake, by age–gender group.

QUESTION 04 **(100 marks)**

4.1. Compare and contrast summarizing, quoting, and paraphrasing in academic writing. (20 marks)

4.2. State **four (04)** incidents that are reported as plagiarism, with examples. (20 marks)

4.3. Paraphrase the following statements. (2 ×30 marks = 60 marks)

4.3.1. "Photosynthesis in green plants uses sunlight to convert carbon dioxide and water into glucose and oxygen, storing energy in chemical bonds."

4.3.2. "Newton's first law of motion states that an object remains at rest or in uniform motion unless acted upon by an external force."

QUESTION 05 **(100 marks)**

5.1. Define the term "referencing" in academic writing. (10 marks)

5.2. Differentiate between a reference list and a bibliography used in academic documents. (30 marks)

5.3. Write references for the following articles, using the Harvard reference style. (2 × 30 marks = 60 marks)

5.3.1. Authors: P. Silva and R. Fernando (2021)
Title: "Advances in Vaccine Development"
Journal: Journal of Medical Science
Volume: 12
Pages: 100–120

5.3.2. Authors: M. Perera and S. Jayasinghe (2020)
Title: "Water Pollution and Public Health"
Journal: Environmental Research Letters
Volume: 8
Pages: 55–70

QUESTION 06 **(100 marks)**

6.1. Compare and contrast the **three (03)** types of resumes in terms of application, advantages, and disadvantages. (30 marks)

6.2. Identify each of the following sentences as Simple, Compound, Complex, or Compound complex. (10 × 3 marks = 30 marks)

6.2.1. The researcher completed the experiment and submitted the report on time.

6.2.2. Although the results were unexpected, the team continued the study.

6.2.3. The sample was contaminated, so the experiment had to be repeated.

6.3. Identify and list the grammatical and structural errors present in the paragraph below. (40 marks)

Global warming are one of the most serious environmental issue facing the world today. It caused by increase in greenhouse gases such as carbon dioxide which trap heat in the atmosphere. Many countries has

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B.Sc. (Hons) in Biomedical Sciences/ B.Sc. (Hons) in Industrial Pharmaceutical Sciences/ B.Sc. (Hons) in Cosmetics Sciences
10th Batch
BSM 1213 – Personality Development
End-Semester Examination – 1st Year 2nd Semester - SEQ

Date: 4th May 2026
Time: 09.00 am – 12.00 noon – Three Hours

INSTRUCTIONS TO CANDIDATES
- This question paper consists of **SIX** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.

Question 01 **(100 Marks)**

1.1 Mention **five (05)** important soft skills required in your relevant industry. **(20 Marks)**

1.2 Describe **four (04)** intrapersonal skills needed by a student and explain how each supports academic success. **(20 Marks)**

1.3 Explain the concept of active listening. **(30 Marks)**

1.4 *During a group presentation, some students speak too softly, avoid eye contact, and read directly from slides, resulting in poor audience engagement.* **(30 Marks)**

1.4.1. Identify the main weaknesses in their presentation skills.
1.4.2. Suggest **three (03)** strategies to improve the effectiveness of their presentation.

Question 02 **(100 Marks)**

2.1 What is 'self-awareness'? **(20 Marks)**

2.2 Mention the **five (05)** elements of emotional intelligence. **(20 Marks)**

2.3 Differentiate between Self-Monitoring vs. Self-Control. **(30 Marks)**

2.4 Explain the Johari's Window model in the communication aspect. **(30 Marks)**

Question 03 **(100 Marks)**

3.1 Who is a client? **(20 Marks)**

3.2 List the **four (04)** different types of customers. **(20 Marks)**

3.3 Briefly explain how an organization can ensure quality customer service. **(30 Marks)**

3.4 *A retail store notices that, despite having good products and reasonable prices, some customers still do not return after their first visit.* **(30 Marks)**

3.4.1. Identify possible reasons why the store may be failing to meet customer expectations.
3.4.2. Suggest how the business can better understand and respond to customer needs to improve customer retention.

Question 04 **(100 Marks)**

4.1 Mention **five (05)** characteristics of a weak leader. **(20 Marks)**

4.2 List **three (03)** theories of leadership. **(20 Marks)**

4.3 Differentiate between autocratic leadership and democratic leadership. **(30 Marks)**

4.4 *Ravi has recently been appointed as the head of a newly formed marketing team in a private company. He finds it difficult to coordinate team activities, manage conflicts among team members, and ensure that work is completed within deadlines.* **(30 Marks)**

4.4.1. Identify and explain the leadership challenges Ravi is facing.

4.4.2. Suggest **two (02)** ways he can overcome these challenges.

Question 05 **(100 Marks)**

5.1 Explain the meaning of "organizational change" in a workplace context. **(20 Marks)**

5.2 Describe **four (04)** factors that can lead to change in an organization, with brief explanations. **(20 Marks)**

5.3 Discuss the personal change model and support your answer with a suitable real-life example. **(30 Marks)**

5.4 *"A hospital introduces a new electronic patient record system to replace paper-based documentation. However, some staff members are reluctant to use the system, leading to delays in updating patient information and reduced efficiency in daily operations."*

5.4.1. Identify at least **three (03)** reasons for their resistance **(15 Marks)**

5.4.2. Suggest **two (02)** techniques the management could use to reduce this resistance. **(15 Marks)**

Question 06 **(100 Marks)**

6.1 List **four (04)** reasons why teamwork is important in an organization. **(20 Marks)**

6.2 Mention the stages of Bruce Tuckman's team development theory. **(30 Marks)**

6.3 Analyse how effective leadership can influence team performance, motivation, and achievement of goals. **(50 Marks)**

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Faculty of Health Sciences
B.Sc. (Hons) in Biomedical Sciences/ B.Sc. (Hons) in Industrial Pharmaceutical Sciences/ B.Sc. (Hons) in Cosmetics Sciences
10th Batch
BSM 1213 – Personality Development
End-Semester Examination – 1st Year 2nd Semester – Assignment

Date: 4th May 2026
Time: 1.30 pm – 2.30 – One Hour

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **TWO** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.

Question 01 **(100 Marks)**

Explain the importance of personality development. Discuss how personality development influences confidence, communication, leadership ability, and overall success in personal and professional life.

Question 02 **(100 Marks)**

Explain the concept of organizational change. Discuss the main reasons why organizations need to change and the common challenges faced during change implementation. In your answer, incorporate the role of leadership in managing change effectively.

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Faculty of Health Sciences
B.Sc. (Hons) Biomedical Sciences/ B.Sc. (Hons) Industrial Pharmaceutical Science/ B.Sc (Hons) Cosmetics Sciences/ B.Sc. (Hons) Medical & Health Product Management
BSM 1243/ BSM 1223
10th Batch (10th Batch BMS/ 10th IPS/ 8th Batch BCS/ 5th Batch MHPM)
Foundation of Chemistry
End Semester Examination- Practical
1st Year 2nd Semester

Date: 12th of May 2026
Time: 9.00am– 11.00 am - Two Hours

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **TWO** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.

QUESTION 01 **(100 marks)**

You have provided a solution (solution **X**) that contains sulphuric acid.

1.1 Titrate 10.00 cm^3 of solution **X** with 0.1 $moldm^{-3}$ NaOH and complete the following table. (60 marks)

Experiment	Initial burette volume (cm^3)	Final burette volume (cm^3)	Volume Consumed (cm^3)
1			
2			

1.1.1 Calculate total H^+ concentration of the solution "**X**". (10 marks)

1.1.2 Calculate the initial pH of the solution "**X**". (10 marks)

1.1.3 Calculate the final pH of the solution "**X**" (10 marks)

1.1.4 Sketch the titration curve for the experiment. (10 marks)

QUESTION 02 **(100 marks)**

Flame test can be used to identify strontium and sodium ions based on the characteristic color they emit when heated in a flame. The absorption wavelength of strontium and sodium ions is 650 nm and 589 nm respectively. (Plank constant (h) is 6.63×10^{-34} Js and speed of light (c) is 3.00×10^8 m/s)

2.1 List down steps for carrying out a flame test in the laboratory to identify strontium ions. (20 marks)

2.2 Calculate the energy of light emitted by strontium ions at 650 nm. (20 marks)

2.3 Calculate the energy difference between sodium and strontium emission. (20 marks)

2.4 Indicate the importance of having blue color flame during the flame test. (20 marks)

2.5 Evaluate the inconsistent flame colors for the same sample during the flame test. (20 marks)

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Faculty of Health Sciences
B.Sc. (Hons) Biomedical Sciences/ B.Sc. (Hons) Industrial Pharmaceutical Science/ B.Sc. (Hons) Cosmetics Sciences/ B.Sc. (Hons) Medical & Health Product Management
10th Batch (10th Batch BMS/ 10th IPS/ 8th Batch BCS/ 5th Batch MHPM)
BSM 1243/ BSM 1223 – Foundation of Chemistry
End-Semester Examination-SEQ
1st Year 2nd Semester

Date: 11th of May 2026
Time: 9.00 am– 12.00 noon - Three Hours

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **SIX** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.

QUESTION 01 **(100 marks)**

Sulphur and Oxygen form complexes of SO_4^{-2} and SO_3^{-2}

1.1 Illustrate the stable Lewis structures for the following molecules. (30 marks)
1.1.1 SO_3^{-2}
1.1.2 SO_4^{-2}

1.2 Illustrate the molecular shapes for the following molecules. (30 marks)
1.2.1 SO_3^{-2}
1.2.2 SO_4^{-2}

1.3 Construct the resonance structure for the following molecule. (20 marks)
1.3.1 SO_3^{-2}

1.4 Find the oxidation state and hybridization of sulphur for the following molecule. (20 marks)
1.4.1 SO_4^{-2}

QUESTION 02 **(100 marks)**

2.1 Write **two (02)** factors that affect electronegativity. (20 marks)

2.2 Calculate the **electronegativity difference** between the central atom and oxygen in SO_2 and comment on the bond character. (Given that the electronegativities of S = 2.58 and O = 3.44) (20 marks)

2.3 Draw the molecular orbital energy level diagram for N_2. Assuming, σ 2Pz molecular orbital is lower in energy than π 2Px and π 2Py. (30 marks)

2.4 Calculate the bond order of N_2. (30 marks)

QUESTION 03 **(100 marks)**

3.1 Dinitrogen tetroxide (N_2O_4) exists in equilibrium with nitrogen dioxide (NO_2) in a closed vessel. 1.00 mol of N_2O_4 is placed in a 2.0 dm^3 vessel at 300 K. At equilibrium, the moles of N_2O_4 is 0.5 mol.

$$N_2O_4\ (g) \rightleftharpoons 2NO_2\ (g)$$

3.1.1 Write the **expression for Kc** for this reaction. (10 marks)

3.1.2 Calculate the **equilibrium concentrations of N_2O_4 and NO_2** for the above reaction. (20 marks)

3.1.3 Calculate the **value of Kc** for the above reaction. (10 marks)

3.2 A reaction between zinc and copper (II) ions is studied in a laboratory. The overall reaction is given below and the standard potential of zinc and copper is $E^{\circ}_{cell\ Zn+2/Zn} = -0.76$ V and $E^{\circ}_{cell\ Cu+2/Cu} = 0.34$ V.

$$Zn(s) + Cu^{2+}(aq) \rightarrow Zn^{2+}(aq) + Cu(s)$$

3.2.1 Write the **half-cell reactions** for the anode and cathode. (10 marks)

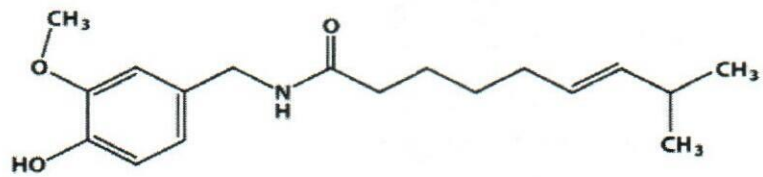
3.2.2 Calculate the standard cell potential, E°_{cell}, for the overall reaction. (20 marks)

3.2.3 Evaluate whether the reaction is spontaneous under standard conditions. (10 marks)

3.2.4 Calculate the average rate of reaction when Cu^{+2} concertation decreases from 1.00 $moldm^{-3}$ to 0.8 $moldm^{-3}$ in 50 s. (20 marks)

QUESTION 04 **(100 marks)**

4.1 Answer the following questions based on the molecule given below.



4.1.1 Mark all the functional groups present in the molecule. (20 marks)

4.1.2 Name the acidic and basic groups present in the molecule. (20 marks)

4.1.3 Name the electron-rich and electron-deficient groups present in the molecule. (20 marks)

4.2 Consider **tert-butyl chloride ($C(CH_3)_3Cl$)** in solution. When dissolved in water, it undergoes solvolysis to form **tert-butyl alcohol**.

$$C(CH_3)_3Cl + H_2O \rightarrow C(CH_3)_3OH + HCl$$

4.2.1 Draw the heterolytic cleavage of the C–Cl bond, showing which atom takes the electrons. (20 marks)

4.2.2 Identify the carbocation formed and its stability. (20 marks)

QUESTION 05 **(100 marks)**

5.1 Evaluate the general trend (down the group) for the following parameters in the periodic table. (10 marks)

- Hydration energy
- Melting point

5.2 Write balanced chemical reactions for the following reactions. (20 marks)

- Reaction of sodium with water
- Reaction of calcium with oxygen

5.3 The first, second & third ionization energies (IE_1& IE_2 & IE_3) of elements **X, Y, and Z** are given in the table below.

Element	**IE_1** (kJ/mol)	**IE_2** (kJ/mol)	**IE_3** (kJ/mol)
X	738	5851	6700
Y	496	4563	5100
Z	589	790	8980

5.3.1 Evaluate the group of each element in the periodic table based on the ionization energy data. (30 marks)

5.3.2 Identify which element is most likely to form a stable +1 cation with reasons. (20 marks)

5.3.3 Explain why there is a large gap between the first and second ionization energy of element "Y". (20 marks)

QUESTION 06 **(100 marks)**

The Haber process is an industrial method used to produce ammonia under specific conditions of temperature, pressure, and catalyst.

6.1 Write the balanced chemical reaction for the Haber process. (20 marks)

6.2 Evaluate how temperature affects the yield of ammonia. (20 marks)

6.3 Evaluate the overall improvement in ammonia yield when ammonia is continuously removed from the reaction mixture. (20 marks)

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B.Sc. (Hons) in Biomedical Sciences/ B.Sc. (Hons) in Industrial Pharmaceutical Sciences/ B.Sc. (Hons) in Cosmetics Sciences/ B.Sc. (Hons) in Medical and Health Product Management
10th Batch
BSM 1233/ BSM 1213 – General Psychology/ Industrial Psychology
End-Semester Examination – 1st Year 2nd Semester - SEQ

Date: 08th May 2026
Time: 09.00 am – 12.00 – Three Hours

INSTRUCTIONS TO CANDIDATES
- This question paper consists of **SIX** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.

Question 01 **(100 Marks**

1.1 Name the **three (03)** major philosophical issues in psychology. **(20 Marks**
1.2 Briefly describe the concept of 'Phrenology'. **(20 Marks**
1.3 Explain Abraham Maslow's Hierarchy of Needs with suitable examples. **(30 Marks**
1.4 *A child named Kasun becomes fearful whenever he hears a loud bell sound at school. Previously, the bell rang just before he was scolded harshly by a teacher. Over time, even hearing similar sounds causes anxiety.* **(30 Marks**

Using Ivan Pavlov's Classical Conditioning, explain how this fear response developed.

Question 02 **(100 Marks**

2.1 What is the Foot-in-the-Door technique in social psychology? **(10 Marks**
2.2 Describe the Just-World Hypothesis and how it can lead to biased judgments about people. **(20 Marks**
2.3 Explain the attribution theory. **(30 Marks**
2.4 *A student believes that smoking is harmful to health. However, they continue to smoke regularly due to peer pressure and stress. This causes discomfort and internal conflict.* **(40 Marks**

2.4.1. Explain the concept of cognitive dissonance in this situation.
2.4.2. Identify how this dissonance can be reduced.

Question 03 **(100 Marks**

3.1 List the **six (06)** main functions of the brain. **(20 Marks**
3.2 Briefly describe **four (04)** limitations of the multistore model theory of memory. **(20 Marks**
3.2 Mention **four (04)** factors that affect memory. **(20 Marks**
3.4 Differentiate between Top-Down Attention (Endogenous) and Bottom-Up Attention (Exogenous), with examples. **(40 Marks**

Question 04 **(100 Marks)**

4.1 Define 'intelligence' in psychology. **(10 Marks)**

4.2 Differentiate between fluid intelligence and crystallized intelligence, giving **two (02)** examples for each. **(20 Marks)**

4.3 List **four (04)** hormones and their psychological functions in the human body. **(30 Marks)**

4.4 *A university student experiences frequent stress, irregular sleep, poor concentration, and sudden mood changes during exam periods. The student also consumes excessive caffeine and reports feeling "mentally exhausted" despite studying.* **(40 Marks)**

Explain why biological psychology is important in understanding this student's condition.

Question 05 **(100 Marks)**

5.1 List the main **three (03)** theories of developmental psychology. **(20 Marks)**

5.2 Briefly explain Piaget's theory of cognitive development. **(20 Marks)**

5.3 Outline how information management (locating, organizing, and evaluating information) helps improve library skills. **(30 Marks)**

5.4 Analyze how adaptability to new systems contributes to the development of computer skills. **(30 Marks)**

Question 06 **(100 Marks)**

6.1 List the **four (04)** stages of sleep. **(20 Marks)**

6.2 Differentiate between nightmares and night terrors. **(20 Marks)**

6.3 Differentiate between internal recruitment and external recruitment, explaining the benefits to the organization. **(30 Marks)**

6.4 Explain workplace violence and describe its main forms and targets within an organization. **(30 Marks)**

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Faculty of Health Sciences
B.Sc. (Hons) in Biomedical Sciences/ B.Sc. (Hons) in Industrial Pharmaceutical Sciences/ B.Sc. (Hons) in Cosmetics Sciences/ B.Sc. (Hons) in Medical and Health Product Management
10th Batch
BSM 1233/ BSM 1213 – General Psychology/ Industrial Psychology
End-Semester Examination – 1st Year 2nd Semester - Assignment

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Date: 08th May 2026
Time: 13.30 – 14.30 One Hour

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **TWO** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.

Question 01 **(100 Marks)**

Explain the Five-Factor Model (Big Five) of personality and Cattell's personality trait theory. Compare the two approaches, highlighting their key features, similarities, and differences in understanding human personality.

Question 02 **(100 Marks)**

Explain how the central nervous system (CNS), and the endocrine system regulate both physiological and psychological processes in human behaviour.

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Faculty of Health Sciences
B.Sc. (Hons) in Biomedical Sciences/ B.Sc. (Hons) in Industrial Pharmaceutical Sciences/ B.Sc. (Hons) in Cosmetics Sciences
10th Batch
BSM 1213 – Personality Development
End-Semester Examination – 1st Year 2nd Semester - SEQ

Date: 4th May 2026
Time: 09.00 am – 12.00 noon – Three Hours

INSTRUCTIONS TO CANDIDATES
- This question paper consists of **SIX** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.

Question 01 **(100 Marks)**

1.1 Mention **five (05)** important soft skills required in your relevant industry. **(20 Marks)**

1.2 Describe **four (04)** intrapersonal skills needed by a student and explain how each supports academic success. **(20 Marks)**

1.3 Explain the concept of active listening. **(30 Marks)**

1.4 *During a group presentation, some students speak too softly, avoid eye contact, and read directly from slides, resulting in poor audience engagement.* **(30 Marks)**

1.4.1. Identify the main weaknesses in their presentation skills.
1.4.2. Suggest **three (03)** strategies to improve the effectiveness of their presentation.

Question 02 **(100 Marks)**

2.1 What is 'self-awareness'? **(20 Marks)**

2.2 Mention the **five (05)** elements of emotional intelligence. **(20 Marks)**

2.3 Differentiate between Self-Monitoring vs. Self-Control. **(30 Marks)**

2.4 Explain the Johari's Window model in the communication aspect. **(30 Marks)**

Question 03 **(100 Marks)**

3.1 Who is a client? **(20 Marks)**

3.2 List the **four (04)** different types of customers. **(20 Marks)**

3.3 Briefly explain how an organization can ensure quality customer service. **(30 Marks)**

3.4 *A retail store notices that, despite having good products and reasonable prices, some customers still do not return after their first visit.* **(30 Marks)**

3.4.1. Identify possible reasons why the store may be failing to meet customer expectations.
3.4.2. Suggest how the business can better understand and respond to customer needs to improve customer retention.

Question 04 **(100 Marks)**

4.1 Mention **five (05)** characteristics of a weak leader. **(20 Marks)**

4.2 List **three (03)** theories of leadership. **(20 Marks)**

4.3 Differentiate between autocratic leadership and democratic leadership. **(30 Marks)**

4.4 *Ravi has recently been appointed as the head of a newly formed marketing team in a private company. He finds it difficult to coordinate team activities, manage conflicts among team members, and ensure that work is completed within deadlines.* **(30 Marks)**

4.4.1. Identify and explain the leadership challenges Ravi is facing.
4.4.2. Suggest **two (02)** ways he can overcome these challenges.

Question 05 **(100 Marks)**

5.1 Explain the meaning of "organizational change" in a workplace context. **(20 Marks)**

5.2 Describe **four (04)** factors that can lead to change in an organization, with brief explanations. **(20 Marks)**

5.3 Discuss the personal change model and support your answer with a suitable real-life example. **(30 Marks)**

5.4 *"A hospital introduces a new electronic patient record system to replace paper-based documentation. However, some staff members are reluctant to use the system, leading to delays in updating patient information and reduced efficiency in daily operations."*

5.4.1. Identify at least **three (03)** reasons for their resistance **(15 Marks)**
5.4.2. Suggest **two (02)** techniques the management could use to reduce this resistance. **(15 Marks)**

Question 06 **(100 Marks)**

6.1 List **four (04)** reasons why teamwork is important in an organization. **(20 Marks)**

6.2 Mention the stages of Bruce Tuckman's team development theory. **(30 Marks)**

6.3 Analyse how effective leadership can influence team performance, motivation, and achievement of goals. **(50 Marks)**

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CINEC CAMPUS
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Faculty of Health Sciences
B.Sc. (Hons) in Biomedical Sciences/ B.Sc. (Hons) in Industrial Pharmaceutical Sciences/ B.Sc. (Hons) in Cosmetics Sciences
10th Batch
BSM 1213 – Personality Development
End-Semester Examination – 1st Year 2nd Semester – Assignment

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Date: 4th May 2026
Time: 1.30 pm – 2.30 – One Hour

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **TWO** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.

Question 01 **(100 Marks)**

Explain the importance of personality development. Discuss how personality development influences confidence, communication, leadership ability, and overall success in personal and professional life.

Question 02 **(100 Marks)**

Explain the concept of organizational change. Discuss the main reasons why organizations need to change and the common challenges faced during change implementation. In your answer, incorporate the role of leadership in managing change effectively.

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CINEC CAMPUS
Beyond A Graduate

Faculty of Health Sciences

Bachelor of Science Honours in Biomedical Science/ Bachelor of Science Honours in Industrial Pharmaceutical Science/ Bachelor of Science Honours in Cosmetic Science

BSM 1253 Academic Writing
1st Year 2nd Semester-9th Batch

End Semester SEQ Examination

Date	**: 22nd January 2026**
Time	**: 09.00 a.m. – 12.00 p.m. (Three hours)**

QUESTION 01 **(100 marks)**

1.1 Discuss the importance of grammar in effective academic writing. (20 marks)

1.2 Explain the role of the key characteristics of academic writing in scientific and academic texts. (20 marks)

1.3 Discuss the importance of each stage of the writing process on effective academic assignment. (30 marks)

1.4 Compare and contrast two (02) pre-writing strategies in generating ideas and organizing content. (30 marks)

QUESTION 02 **(100 marks)**

2.1 Discuss one note-taking method commonly used in academic study, including its main features and applications. (20 marks)

2.2 Identify the three (03) components of a scientific abstract, emphasizing the role of each component in summarizing the research. (30 marks)

2.3 Summarize the following passage. (Maximum word limit 50) (50 marks)

Recent research has highlighted the complex interactions between climatic changes and the depletion of the ozone layer. Greenhouse gas emissions, along with ozone-depleting substances such as chlorofluorocarbons (CFCs), continue to damage the stratospheric ozone, leading to increased levels of harmful ultraviolet (UV) radiation reaching the Earth's surface. Elevated UV exposure adversely affects ecosystems, human health, and agricultural productivity, causing issues such as skin cancer, cataracts, and reduced crop yields. International efforts, particularly the Montreal Protocol, have successfully limited the production and release of many ozone-depleting chemicals, resulting in gradual recovery of the ozone layer. However, ongoing climate change, industrial activities, and emerging pollutants pose persistent challenges. Continuous monitoring, public awareness, and mitigation strategies remain critical to ensure the restoration of the ozone layer, safeguard biodiversity, and minimize the broader environmental and health risks associated with climate-induced ozone depletion.

QUESTION 03 **(100 marks)**

3.1 The following graph shows the information on reported deaths from diabetes type I and II in the world from 1980 to 2021. Summarize the information by selecting and reporting the main features. Write at least 50 words. (40 marks)

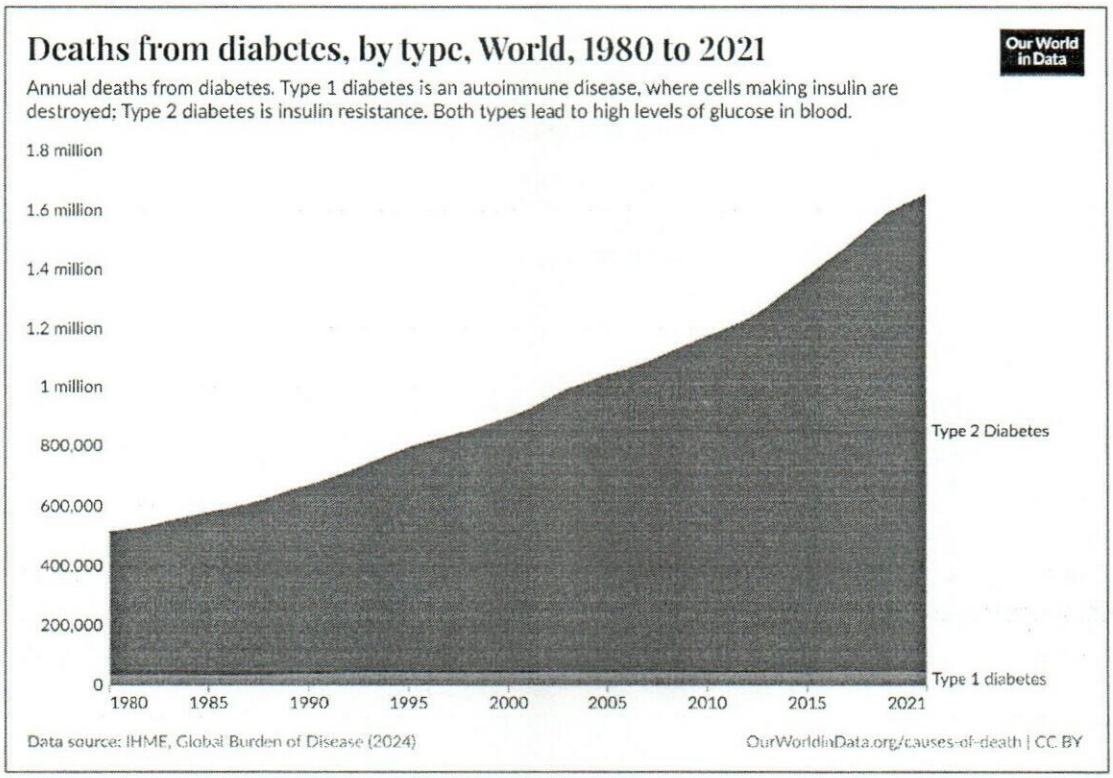


Figure 1: Reported Deaths by Diabetes in the world from 1982-2021

3.2 The following bar chart shows the nutritional status of children under five in 2009 across different districts in Sri Lanka. Compare and contrast the information by selecting and reporting the main features. Write at least 50 words. (40 marks)

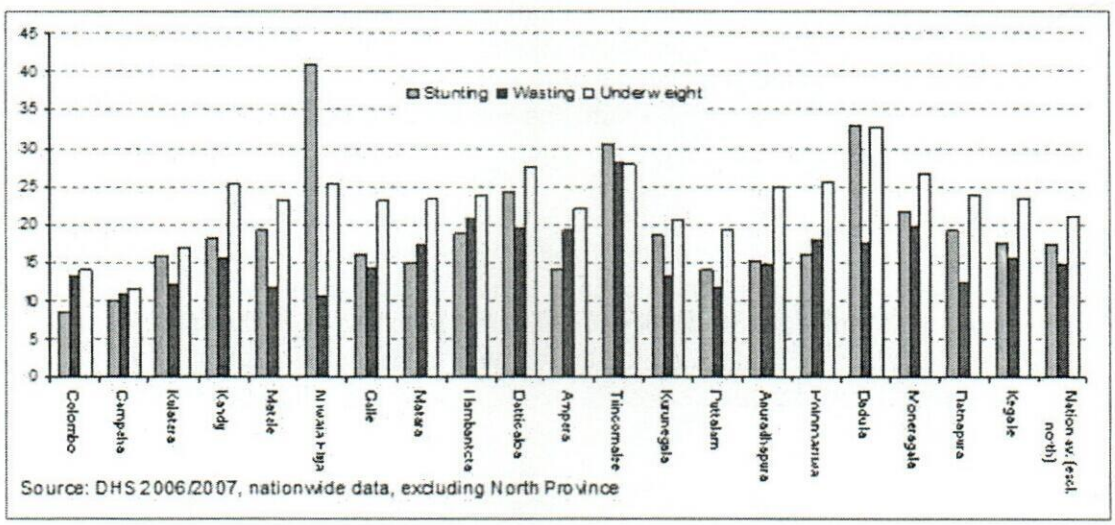


Figure 2: District wise nutritional status of Sri Lankan children under five in 2009

3.3 The Colombo district has experienced frequent flooding during heavy rains since 2002.

- What are the possible causes of these floods?
- What measures can be taken to prevent flooding and reduce its impact on residents?

Compose a problem-solution essay analyzing the above issue using an appropriate academic essay structure. (20 marks)

QUESTION 04 **(100 marks)**

4.1 Compare and contrast summarizing, quoting, and paraphrasing in academic writing. (20 marks)

4.2 Explain plagiarism, highlighting its impact on the credibility and integrity of scholarly work. (20 marks)

4.3 Paraphrase the following statements. (3 X 20 marks = 60 marks)

I. "Cellular respiration in living organisms breaks down glucose into carbon dioxide and water, releasing energy stored in ATP molecules."

II. "Ohm's law states that the current flowing through a conductor is directly proportional to the voltage applied across it, provided the temperature remains constant."

III. "The discovery of DNA's double-helix structure by James Watson and Francis Crick transformed molecular biology by explaining how genetic information is stored, replicated, and transmitted in living organisms.

QUESTION 05 **(100 marks)**

5.1 Briefly describe two (02) widely used reference styles in scientific research. (30 marks)

5.2 Explain the role of proper referencing in maintaining academic arguments in scholarly writing. (30 marks)

5.3 Write references for the following articles, using the Harvard reference style. (4 X 10 marks = 40 marks)

I. An article in the journal Science Advances by M. Patel and S. Lee (2021) titled "Advancements in Artificial Intelligence for Healthcare Applications", published in volume 15, pages 100–120.

II. An article in the journal Global Environmental Change by H. Kim and D. Singh (2020) titled "Urbanization and Its Effects on Local Climate Patterns", published in volume 45, pages 300–318.

III. An article in the journal Cellular Biology Reports by P. Johnson and R. Ahmed (2019) titled "Stem Cell Therapy: Current Challenges and Future Perspectives", published in volume 12, pages 75–90.

IV. An article in the journal Renewable Energy Reviews by F. Martinez and L. Chen (2022) titled "Solar Power Innovations and Global Energy Transition", published in volume 60, pages 400–420.

QUESTION 06 **(100 marks)**

6.1. Complete the sentences below by inserting the appropriate coordinating conjunctions: *and, but, or, for, nor, so*. Write only the question number and the selected conjunction.

(10 × 3 marks = 30 marks)

6.1.1. The researcher collected the data systematically, ...analyzed it using statistical methods.

6.1.2. The laboratory experiment required precise instruments, careful measurements,..... strict adherence to protocols.

6.1.3. The hypothesis was widely accepted, ... further evidence was necessary to confirm it.

6.1.4. The biologist discovered a novel species.....submitted her findings to a peer-reviewed journal.

6.1.5. Climate change poses a significant threat,.....some policymakers remain unconvinced.

6.2. Select the correctly spelled term from each list and write it. (10X5 marks= 50 marks)

I	photosynthesis	photusynthesis	photosynthisis	photosyntheesis
II	mitocondria	mitochondria	mitochonria	mitochondre
III	biodivarsity	biodivirsity	biodiversity	biodiversty
IV	microorganism	microrganism	microoraganism	microrganism
V	osmosess	osmosees	osmosis	osmos
VI	clorophyll	chlorophil	chlorophyll	chlorofil
VII	biochemestry	biochemstry	bochemistry	biochemistry
VIII	taxonomy	taxonommy	taxonomi	taxonomi
IX	ecosistum	ecossystem	ecosystem	ecosysteem
X	nanotecnology	nanotechnolgy	nanotechnulogy	nanotechnology

6.3 List the essential elements that should be included in a scientific CV (20 marks)

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Faculty of Health Sciences
B.Sc. (Hons) Biomedical Sciences/ B.Sc. (Hons) Industrial Pharmaceutical Sciences/ B.Sc. (Hons) Cosmetic Science/ B.Sc. (Hons) Medical and Health Product Management
9th Batch
BSM 1233 – General Psychology/ BSM1213 - Industrial Psychology

Date: 10th October 2025
Time: 9.00 a.m. – 10.00 a.m. (One Hour)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **TWO** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.
- You are not allowed to take out the examination papers.

Question 01 **(100 Marks)**

1.1 Briefly describe 'Self-Serving Bias' with an example. **(20 Marks)**
1.2 Briefly describe the **three (03)** philosophical issues in psychology. **(30 Marks)**
1.3 State **four (04)** examples of 'social norms'. **(20 Marks)**
1.4 Write short notes on the following topics.
1.4.1. Psychoanalytic/psychodynamic approach of psychology **(15 Marks)**
1.4.2. Goals of psychology **(15 Marks)**

Question 02 **(100 Marks)**

2.1 Briefly describe the process of the 'Synapse'. **(20 Marks)**
2.2 List **three (03)** neurotransmitters found in the human nervous system. **(15 Marks)**
2.3 Mention **one (01)** behavioural effect associated with each neurotransmitter you listed above. **(15 Marks)**
2.4 List **two (02)** hormones that have a psychological impact. **(10 Marks)**
2.5 State **one (01)** function of each hormone you listed above. **(10 Marks)**
2.6 Write short notes on the following topics.
2.6.1. Piagetian Cognitive Development Theory **(15 Marks)**
2.6.2. Eysenck's theory of personality states **(15 Marks)**

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CINEC CAMPUS
Beyond A Graduate

Faculty of Health Sciences
Bachelor of Science Honours in Biomedical Sciences/ Bachelor of Science Honours in Industrial Pharmaceutical Sciences/ Bachelor of Science Honours in Cosmeceutical Science
BSM 1223 Professional English

Batch – 08
1st Year 2nd Semester
End Semester SEQ Examination

Date : **26.03.2025**
Time : **9.00 a.m. – 12.00 p.m. (Three Hour)**

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **SIX** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.

Question 01 **(100 marks)**

Read the following essay on 'Brain Drain'. Match each sentence (A-J) to the paragraph (1-6) that best aligns with its main idea. Each sentence is used only once.

e.g.: Paragraph X _____***D***_____

Brain drain refers to the migration of highly skilled professionals, particularly healthcare workers, from developing countries to developed nations. This movement is driven by the allure of better living standards, higher salaries, advanced technology, and political stability. While trained healthcare professionals are vital for improving global health outcomes, their emigration from developing countries creates significant challenges. These nations invest substantial resources in educating and training these workers, only to lose them to wealthier countries that benefit without bearing the cost of their education.

1.1 Paragraph 1 …….. (20 marks)

By 2000, nearly 175 million people, or 2.9% of the global population, were living outside their country of origin for over a year, with 65 million being economically active, including many healthcare professionals. This migration has been particularly notable in the healthcare sector, where physicians and nurses have sought better opportunities abroad. The issue became especially concerning in the 1940s when many European professionals emigrated to the USA and the UK, and by the 1970s, the World Health Organization (WHO) found that almost 90% of migrating physicians were headed to just five countries: the USA, the UK, Canada, Australia, and Germany.

1.2 Paragraph 2 …….. (20 marks)

In the 1970s, approximately 6% of the world's physicians were practicing abroad, with a majority concentrated in the USA, UK, and Canada. Most of these emigrants came from former colonial countries, particularly in Asia, such as India, Pakistan, and Sri Lanka. Countries like India, Egypt, and the Philippines were producing more healthcare professionals than they could absorb, creating a brain drain phenomenon. Despite this, challenges in gathering reliable data and defining the permanence of migration make it difficult to fully quantify the extent of the problem.

1.3 Paragraph 3 ..... (20 marks)

Although brain drain is often viewed as a negative phenomenon, it can be seen as both inevitable and, to some extent, beneficial. Migrants, particularly young and well-educated individuals, often find themselves in more advanced healthcare systems where they can expand their professional skills and secure better economic opportunities. This migration is shaped by a complex set of "push" and "pull" factors. Developing countries push their professionals abroad through low wages, poor working conditions, and limited career growth, while developed countries pull them in with higher salaries, state-of-the-art facilities, and better working conditions.

1.4 Paragraph 4 ..... (20 marks)

The loss of healthcare professionals from developing countries deepens the strain on their already fragile healthcare systems. For instance, in India, healthcare spending is only 3% of GDP, compared to 13% in the USA. Moreover, India has a much higher doctor-to-patient ratio than developed countries. These disparities, coupled with poor working conditions, low wages, and insufficient leadership, contribute to the outflow of professionals. Developing nations not only lose their financial investment in education but also the ability to improve public health through these skilled workers.

1.5 Paragraph 5 ..... (20 marks)

Developed countries, for their part, benefit from the influx of skilled professionals, including healthcare workers, to fill gaps in their own labor markets. Countries like the USA, which attract a significant number of skilled migrants, view this as a way to address labor shortages in specialized fields. However, given the ongoing political, economic, and social challenges faced by developing nations, it seems unlikely that brain drain can be fully stopped. Higher education remains a key driver, as foreign-born students in countries like the USA, UK, and France often stay after completing their studies, reinforcing the global trend of skilled migration. The demand for highly skilled professionals in sectors like high-tech industries and research and development continues to propel this movement, ensuring that brain drain remains a critical global issue.

A. While some professionals leave due to unfavorable conditions in their home countries, others are drawn to opportunities in more developed nations, which offer better financial and professional incentives.
B. The loss of highly trained workers from countries with already underfunded healthcare systems leads to further strain, as the remaining workforce struggles to meet the healthcare needs of the population.
C. The disproportionate movement of healthcare workers from developing countries is rooted in the combination of poor wages, lack of infrastructure, and the appeal of more prosperous and advanced nations.
D. The migration of highly trained professionals, especially in the healthcare sector, is a growing concern as it exacerbates the resource gap between developed and developing countries.
E. The draw of high salaries, better working conditions, and the opportunity for personal and professional growth in wealthier countries serves as a powerful incentive for skilled professionals to leave their home countries.
F. Countries such as the USA, UK, Canada, and Australia became primary destinations for the majority of migrating physicians, a trend that has continued to shape global healthcare workforce distribution.
G. Developing nations, after investing considerable resources in education and training, face significant setbacks when their skilled professionals migrate, as these countries fail to reap the benefits of their educational investments.

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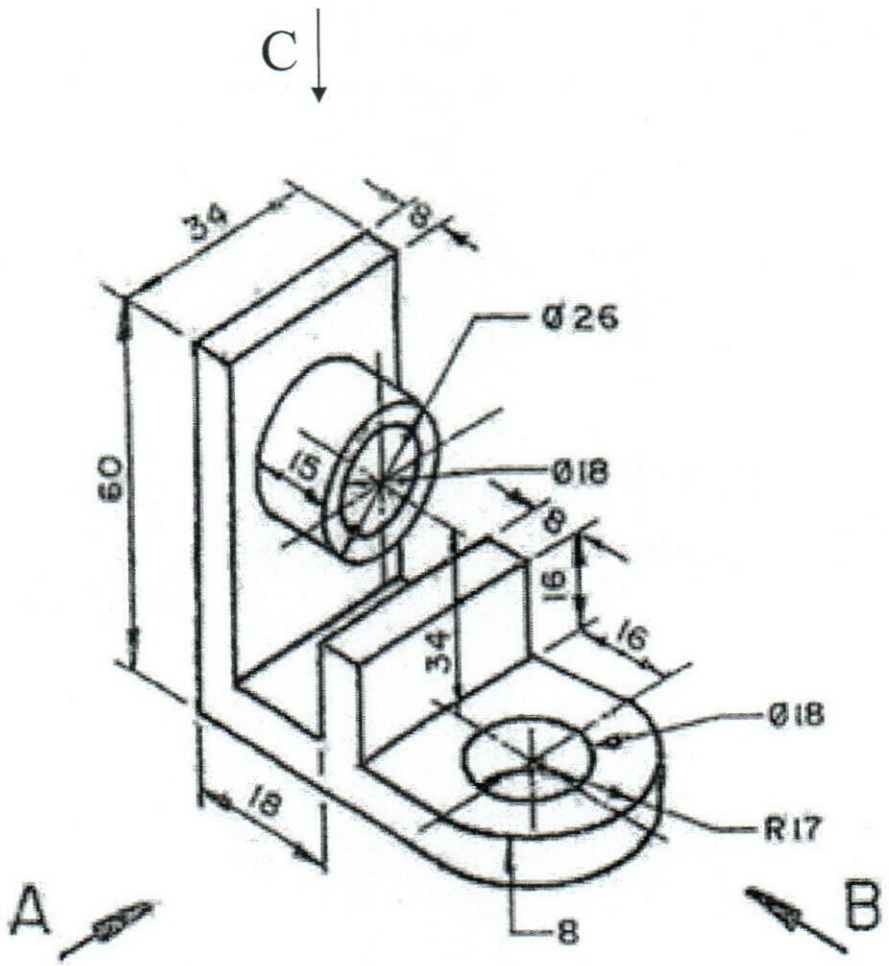
Marine Welder Fitter
Final Examination
Drawing

Answer All question
Time : 03 Hrs

2025 March

01.Draw to full size the Orthographic views [පහත දැක්වෙන රූපයේ (Orthographic view)]

1. The Front elevation looking in the direction of arrow "A" [ඉදිරි පෙනුම (Front Elevation) "A" දිශාවෙන් බලා අඳින්න (Looking A- Direction)]
2. The End elevation looking in the direction of arrow "B" [පැති පෙනුම (End Elevation) "B" දිශාවෙන් බලා අඳින්න (Looking B- Direction)]
3. The End elevation looking in the direction of arrow "C" [Plan එක "C" දිශාවෙන් බලා අඳින්න (Looking C- Direction)]



(mark 50)

See next page

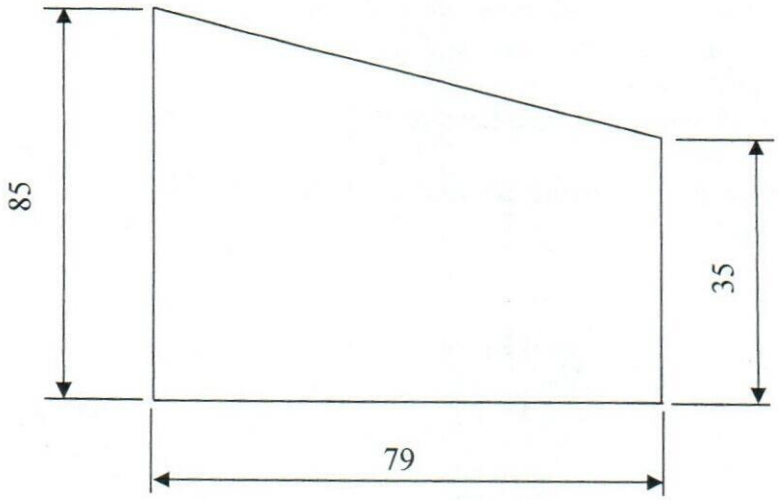
ALL DIMENSIONS IN MILLIMETERS

02 Draw the Development of a cylinder. [පහත දී ඇති සිලින්ඩරයේ (cylinder) විකසනය (Development) ඇඳ දක්වන්න.]

i. Draw the given Front elevation. [දී ඇති ඉදිරි පෙනුම අඳින්න]

ii. Draw the plan. [Plan එක අඳින්න]

iii. Draw the Development of a Cylinder. [සිලින්ඩරයේ විකසනය (Development) ඇඳ දක්වන්න.]



(mark 35)

03. Drawing project (mark 15)

ALL DIMENSIONS IN MILLIMETERS

H.	By 2000, a significant portion of the global population was residing outside their home countries, and many of these individuals were health professionals seeking better career prospects abroad.
I.	A small group of developed nations continues to attract a large number of highly skilled workers, despite the increasing need for these professionals in the countries from which they originate.
J.	Despite the challenges posed by brain drain, migrants often benefit from enhanced career development and financial stability, which they cannot attain in their home countries.

Question 02 **(100 marks)**

Rewrite this email to enhance its professionalism and clarity. Focus on using:

- a range of sentence structures
- concise expressions
- more formal vocabulary

Subject: Request for Information Regarding the Upcoming Project Meeting

Dear Ms. Thompson,

I hope this email finds you well. I am writing to seek clarification regarding the project meeting scheduled for next Wednesday, as I want to ensure that I am thoroughly prepared for the discussion. I would greatly appreciate it if you could inform me if there are any specific materials or reports I should review beforehand to contribute effectively to the meeting.

In addition, I would like to confirm whether the meeting will focus on the final project deliverables or if there will be an opportunity to address any outstanding issues or concerns. Having an outline of the agenda or the main topics to be discussed would be immensely helpful in guiding my preparation.

I also wanted to ask if there are any additional tasks or expectations that I should be aware of in the lead-up to the meeting. I am committed to ensuring that I can contribute in the most effective manner possible.

Thank you for your time and assistance in this matter. I look forward to your response and am eager to participate in the meeting.

Kind regards,

Samuel Norm
Production Manager

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Question 03 **(100 marks)**

Fill in the blanks with the most appropriate discourse markers (*e.g., for example, consequently, and moreover,* etc.) that will improve the flow and coherence of the passage.

The cosmetic industry has evolved significantly over the past few decades, driven by advancements in science and technology. _____ (1), cosmetics were primarily used for beautification, but today, they serve multiple functions, including skin care, sun protection, and even anti-aging. _____ (2), sunscreen products have become a crucial part of daily routines, offering protection against harmful UV rays that can cause premature aging and skin cancer. _____ (3), anti-aging products, such as serums and creams, have gained widespread popularity due to the increasing demand for age-defying solutions. _____ (4), researchers and formulators in the cosmetic science field continue to develop innovative ingredients and formulations that address various skin concerns. _____ (5), technological advancements have led to the introduction of more effective formulations that yield better results. _____ (6), consumer awareness about the ingredients used in cosmetic products has also increased. _____ (7), many individuals now seek products that are not only effective but also safe, cruelty-free, and environmentally sustainable. _____ (8), the cosmetic industry is increasingly focusing on creating products that are environmentally friendly and ethically sourced. _____ (9), the demand for sustainable packaging has led companies to explore eco-friendly alternatives. _____ (10), it is clear that the cosmetic industry is constantly evolving to meet the changing needs and concerns of consumers.

Question 04 **(100 marks)**

Summarize each of the following passages into one third (1/3) of its length.

4.1 Students are expected to attend all classes. Absences must be reported in advance with appropriate documentation. More than three unexcused absences will result in a grade penalty. Students should inform the instructor about extended absences due to illness or emergencies. Late arrivals or early departures may also result in penalties. It is the student's responsibility to catch up on missed work. (62 words) (50 marks)

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4.2 Happiness is a multifaceted and deeply personal concept that encompasses emotional well-being, life satisfaction, and the sense of fulfillment individuals derive from their experiences, relationships, and accomplishments. Philosophers, psychologists, and sociologists have long debated the nature of happiness, often distinguishing between hedonic happiness—pleasure derived from external sources—and eudaimonic happiness, which is rooted in living a meaningful life aligned with personal values and growth. Research in positive psychology suggests that happiness is not merely the result of favorable circumstances or material wealth, but rather, it is intricately linked to the cultivation of resilience, the ability to form supportive social connections, and the pursuit of intrinsic goals that contribute to a sense of purpose. Additionally, studies have shown that subjective well-being can be influenced by genetic predispositions, but environmental factors such as a sense of community, financial stability, and engaging in regular physical activity also play crucial roles. Ultimately, the pursuit of happiness is not a linear or singular path; it is an evolving process that varies significantly across cultures, life stages, and individual temperaments, and is often influenced by one's ability to balance immediate pleasures with long-term goals. (189 words) (50 marks)

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Question 05 **(100 marks)**

Your company is considering improving employee engagement and collaboration across departments through the use of modern communication tools. You have been asked to write a proposal suggesting the implementation of new communication platforms in your department.

Write your proposal, including the following:

- A brief outline of the current communication methods used in your department
- A description of the new communication tools that could be introduced
- An explanation of how these new tools will improve collaboration and productivity
- Recommendations for the necessary training and support to ensure successful adoption of these tools

Use the Format given below.

(Heading)_____

5.1 Purpose: (20 marks)

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5.2 Current Use of Technology (20 marks)

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5.3 Technological Improvements (20 marks)

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5.4 Benefits (20 marks)

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5.5 Conclusion (20 marks)

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Question 06- Listening **(100 marks)**

Time Approximately 30 minutes (including 5 minutes' transfer time)

INSTRUCTIONS TO CANDIDATES

Do not open this question paper until you are told to do so.

Answer all the questions. While you are listening, write your answers on the question paper. You will have 5 minutes at the end of the test to finalise your answers.

Part 1: Multiple Choice Questions **(5 X 10=50 marks)**

6.1 What is Jeffrey Hinton often referred to as?

A. The Father of AI
B. The Godfather of AI
C. The Pioneer of AI
D. The Creator of AI

6.2 What does Jeffrey Hinton suggest about the intelligence of AI in comparison to humans?

A. AI will surpass human intelligence in specific tasks but not overall
B. AI may become more intelligent than humans in general
C. AI will only be as intelligent as the humans who create it
D. AI's intelligence will always remain limited to programming

6.3 What was the original goal of Hinton's research in the 1970s?

A. To create the first AI program
B. To develop a neural network
C. To simulate the human brain
D. To design the first chatbot

6.4 How long did it take for Hinton's neural network research to work effectively?

A. 10 years
B. 20 years
C. 50 years
D. 100 years

6.5 In 2019, Hinton and his collaborators won which prestigious award?

A. Nobel Prize
B. Turing Award
C. Fields Medal
D.. Einstein Award

Part 2: Fill in the Blanks **(5 X 10=50 marks)**

6.6 The robots in the AI lab were not .....to play soccer but were told to score.
6.7 When the robot scores, a message is sent back saying that the .....was correct, strengthening the connection.
6.8 The robots learn by .....to improve their performance.
6.9 The human brain has about 100 trillion connections, while the biggest chatbots have about .....connections.
6.10 One potential risk with AI systems is that they might escape control by .....their own computer code.

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CINEC CAMPUS
Beyond A Graduate

Faculty of Health Sciences
B.Sc. (Hons) Biomedical Sciences/ B.Sc. (Hons) Industrial Pharmaceutical Sciences/ B.Sc. (Hons) Cosmetic Science
8th Batch
BSM 1213 – Personality Development
End-Semester Examination – 1st Year 2nd Semester – Assignment

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Date: 24th March 2025
Time: 1.30 pm – 2.30 – One Hour

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **TWO** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.

Question 01 **(100 Marks)**

How does each of the five stages of team building impact team dynamics and productivity?

Question 02 **(100 Marks)**

How do soft skills, interpersonal skills, and intrapersonal skills contribute to the personal and professional growth of a Health Science student?

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CINEC CAMPUS
Beyond A Graduate

Faculty of Health Sciences
B.Sc. (Hons) Biomedical Sciences/ B.Sc. (Hons) Industrial Pharmaceutical Sciences/ B.Sc. (Hons) Cosmetic Science
8th Batch
BSM 1213 – Personality Development
End-Semester Examination – 1st Year 2nd Semester

Date: 24th March 2025
Time: 09.00 am – 12.00 – Three Hours

INSTRUCTIONS TO CANDIDATES
- This question paper consists of **SIX** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.

Question 01 **(100 Marks)**

1.1 State **four (04)** factors that affect the personality development. **(20 Marks)**

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1.2 State the different types of communication skills. **(20 Marks)**

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1.3 Define **"Negotiation Skills"** and give an example. **(30 Marks)**

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1.4 What are the importances of personality development in professional life? **(30 Marks)**

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Question 02 **(100 Marks)**

2.1 State how self-concept is built and destroyed. **(30 marks)**

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2.2 Mention **four (04)** intrapersonal skills used as a student in Higher Education with examples. **(40 marks)**

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2.3 How would you differentiate intrapersonal skills and interpersonal skills separately? **(30 Marks)**

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Question 03 **(100 Marks)**

3.1 Define "Self-Control". **(20 Marks)**

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3.2 What are the **five (05)** elements of self-awareness? **(20 Marks)**

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3.3 Elaborate Johari's Window Model in the communication aspect. **(40 Marks)**

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3.4 Provide an example for **Black and White thinking.** **(20 Marks)**

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Question 04 **(100 Marks)**

4.1 Mention **five (05)** causes of change in an organization. **(20 Marks)**

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4.2 State **four (04)** reasons why people resist change in their personal life with an example. **(20 Marks)**

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4.3 Draw '**Kurt Lewin's change model'** with an example. **(40 Marks)**

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4.4 Mention **four (04)** causes stress in employees. **(20 Marks)**

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Question 05 **(100 Marks)**

5.1 List **five (05)** skills need to understand a client. **(10 Marks)**

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5.2 List **three (03)** challenges of being a leader in an organization with examples. **(20 Marks)**

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5.3 Mention **four (04)** theories of leadership. **(30 Marks)**

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5.4 Mention **four (04)** Types of Leadership Styles with one example for each style. **(40 Marks)**

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Question 06 **(100 Marks)**

6.1 State **four (04)** instances where you build teams. **(20 Marks)**

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6.2 What is '**emotional intelligence**' **(20 Marks)**

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6.3 Mention **four (04)** characteristics of a well-functioning, effective group **(30 Marks)**

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6.4 Provide **three (03)** examples for "**Using Visual Aids in Presentations**". **(30 Marks)**

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CINEC CAMPUS
Beyond A Graduate

Faculty of Health Sciences
B.Sc. (Hons) Biomedical Sciences/ B.Sc. (Hons) Industrial Pharmaceutical Sciences/ B.Sc. (Hons) Cosmetic Science
8th Batch
BSM 1213 – Personality Development
End-Semester Examination – 1st Year 2nd Semester

Date: 24th March 2025
Time: 09.00 am – 12.00 – Three Hours

INSTRUCTIONS TO CANDIDATES
- This question paper consists of **SIX** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.

Question 01 **(100 Marks)**

1.1 State **four (04)** factors that affect the personality development. **(20 Marks)**

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1.2 State the different types of communication skills. **(20 Marks)**

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1.3 Define **"Negotiation Skills"** and give an example. **(30 Marks)**

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1.4 What are the importances of personality development in professional life? **(30 Marks)**

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Question 02 **(100 Marks)**

2.1 State how self-concept is built and destroyed. **(30 marks)**

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CINEC CAMPUS
Beyond A Graduate

Faculty of Health Sciences
B.Sc. (Hons) Biomedical Sciences/ B.Sc. (Hons) Industrial Pharmaceutical Sciences/ B.Sc. (Hons) Cosmetic Science
8th Batch
BSM 1213 – Personality Development
End-Semester Examination – 1st Year 2nd Semester

Date: 24th March 2025
Time: 09.00 am – 12.00 – Three Hours

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CINEC CAMPUS
Beyond A Graduate

PAST PAPERS

Faculty	Department / Section/Division
Not Applicable	Learning Resource Centre

Past Papers

Faculty of Health Sciences

General Papers

(Year 1 – Semester 2)

Document Control & Approving Authority	Senior Director – Quality Management & Administration

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CINEC CAMPUS
Beyond A Graduate

Faculty of Health Sciences

Bachelor of Science Honours in Biomedical Sciences/ Bachelor of Science Honours in Industrial Pharmaceutical Sciences/ Bachelor of Science Honours in Cosmeceutical Science

BSM 1223 Professional English

Batch – 06

1st Year 2nd Semester

Mid Semester Repeat Assignment Examination

Date : **17.07.2024**
Time : **3.00a.m. – 4.00p.m. (One Hour)**

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **TWO** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.

Question 01 **(100 marks)**

Your company has decided to conduct an investigation into the possibility of increasing the number of ways in which technology is used throughout the organization. You have been asked to write a proposal to make technological improvements in your department.

Write your proposal, including the following:

- a brief outline of the current uses of technology in your department
- a description of what technological improvements could be made
- an explanation of the benefits these changes might bring
- recommendations for the kind of training that would be necessary.

Use the Format given below.

(Heading) .....

1.1Purpose (25 marks)

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1.2 Current Use of Technology (25 marks)

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1.3 Technological Improvements (25 marks)

1.4 Benefits (25 marks)

1.5 Conclusion (25 marks)

QUESTION 02 **(100 Marks)**

Write an essay on one of the following topics. (175 -200 words). (100 marks)

2.1 Some people say that the best way to improve public health is by increasing the number of sports facilities. Others, however, say that this would have little effect on public health and that other measures are required. Discuss both these views and give your own opinion.

2.2 Nowadays a growing number of people with health problems are trying alternative medicines and treatments instead of visiting their usual doctor. Do you think this is a positive or a negative development?

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Examination Department
17 JUL 2024
CINEC Campus, Set Faculty

CINEC CAMPUS
Beyond A Graduate

Faculty of Health Sciences
Bachelor of Science Honours in Biomedical Sciences/ Bachelor of Science Honours in Industrial Pharmaceutical Sciences/ Bachelor of Science Honours in Cosmeceutical Science
BSM 1223 Professional English
Batch – 07
1st Year 2nd Semester
End Semester SEQ Examination

Date : **17.07.2024**
Time : **9.00a.m. – 12.00p.m. (Three Hours)**

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **SIX** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.

Question 01 **(100 marks)**

Identify and underline the topic sentence in each of the following short paragraphs.

1.1 Hearing loss can affect the development of children's ability to engage in age-appropriate activities. These include impeding their functional speech communication skills, and their language skills. The loss or reduction of the sense of hearing impairs children's ability to hear speech and learn the intricacies of the spoken language of their environment.
(25 marks)

1.2 Speech-language pathologists (SLP) work in a variety of clinical and educational settings. SLPs work in public and private hospitals, skilled nursing facilities, long-term acute care facilities, and home healthcare. Speech-language pathologists may also work both public and private schools, colleges, and universities. Some speech-language pathologists work in community health, providing services at prisons and young offenders' institutions.
(25 marks)

1.3 Unlike any other form of writing, in a dissertation, there is an expectation that the learner would take responsibility for his/her own learning and would produce a literature review, choose a method for undertaking a study, write up the findings and discuss the outcomes in a discussion section. Hence, a dissertation or final year project, could be termed a form of assessment which differs from other module assessments, and which evaluates the contribution of the candidate to the filed as an academic.
(25 marks)

1.4 Sri Lanka has made major advances in ensuring the welfare of children in many fields, especially in health and education. Many challenges remain. Some of these challenges are long standing. Others have emerged recently. This article highlights some achievements that Sri Lanka has made for her children and draws attention to some challenges primarily based on recent national statistics.
(25 marks)

Question 02 **(100 marks)**

For questions 1 – 10, read the text below and think of the word which best fits each gap. Use only one word in each gap.

The origin of language

The truth (2.1) _____ nobody really knows how language first began. Did we all start talking at around the same time (2.2) _____ of the manner in which our brains had begun to develop? Although there is a lack of clear evidence, people have come up with various theories about the origins of language. One recent theory is that human beings have evolved in (2.3)_____ a way that we are programmed for language from the moment of birth. In (2.4) _____ words, language came about as a result of an evolutionary change in our brains at some stage. Language (2.5) _____ well be programmed into the brain but, (2.6)_____ this, people still need stimulus from others around them. From studies, we know that (2.7) _____ children are isolated from human contact and have not learnt (2.8)_____ construct sentences before they are ten, it is doubtful they will ever do so. This research shows, if (2.9) _____ else, that language is a social activity, not something invented (2.10) _____ isolation.

Question 03 **(100 marks)**

Change the following passages into passive voice.

3.1 Due to the corpus of critical writing by Malathi de Alwis (1995 and 1997), we in Sri Lanka, to some extent, can make some assumptions on how the female costume in colonial times. The research base provided by Kumari Jayawardene (1989) and Janaki Jayawardene (2000) presents multiple perspectives to observe the ever-changing attitudes towards women's clothes.

(25marks)

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3.2 The researchers have identified some consistent and strong predictors of procrastination. First, they investigated English teachers' proneness to procrastinate while meeting professional goals and duties.

(25 marks)

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3.3 The most commonly reported and seen crimes that occur on social media involve people making threats, bullying, harassing, and stalking others online. The authorities rarely punish this type of activity, or they do not take them seriously.

(25 marks)

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3.4 The domestic conflict which lasted more than 30 years severely affected the Northern Province of Sri Lanka and its infrastructure. We can still see the effects of this conflict today, economically as well.

(25 marks)

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Question 04 **(100 marks)**

Summarise each of the following passages into 40-50 words.

4.1 Learning disabilities are life disabilities; they are seen in children as well as adults. The impairment may be so subtle that it may go undetected throughout life. A learning disability, or specific developmental disorder, is a disorder that inhibits or interferes with the skills of learning. It refers to a disorder that interferes with one's ability to store, process or produce information. Such disorders may be manifested by specific delays in early development and/or difficulties in any of the following areas: attention, memory, reasoning, coordination, communication, reading, writing, spelling, calculation, social competence and emotional maturation. Learning disabilities are intrinsic to the individual and may affect learning and behaviour in any individual, including those with potentially average, average, or above average intelligence. Learning disabilities may arise from genetic variation, bio-chemical factors, events in the pre- to post-natal period, or any other subsequent events resulting in neurological impairment.

(50 marks)

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4.2 High levels of stress have been generally perceived by students, which have partly been attributed to interpersonal interaction pressure, life pressure, poverty, violence, especially academic pressure in school settings. Incorporating schooling into one's daily life might be another source of stress, impairing academic performance and quality of life. Moreover, students' well-being has become a worldwide concern because they have been at risk of anxiety, loneliness, and stress. Therefore, the above pressure perceived by students has significant negative impacts on students' mental health, even leading to psychological disorders and poor academic performance. Mindfulness mediation has been applied to improve well-being and mental health to improve students' health status and academic performance. Mindfulness meditation, a clinically proven method, involves nonjudgmentally concentrating people's attention on the current moment. It can enhance people's attention, memory, and critical awareness, promoting students' social skills and academic outcomes.

(50 marks)

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Question 05

(100 marks)

Your company has decided to conduct an investigation into the possibility of increasing the number of ways in which technology is used throughout the organisation. You have been asked to write a proposal to make technological improvements in your department.

Write your proposal, including the following:

- a brief outline of the current uses of technology in your department
- a description of what technological improvements could be made
- an explanation of the benefits these changes might bring
- recommendations for the kind of training that would be necessary.

Use the Format given below.

(Heading).....

5.1Purpose

(20 marks)

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5.2 Current Use of Technology (20 marks)

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5.3 Technological Improvements (20 marks)

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5.4 Benefits (20 marks)

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5.5 Conclusion (20 marks)

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Question 06 **(100 marks)**

Part 1

Time Approximately 30 minutes (including 5 minutes' transfer time)
Listen to the instructions for each part of the paper carefully. Answer all the questions. While you are listening, write your answers on the question paper. You will have 5 minutes at the end of the test to finalize your answers.
You will hear three different extracts. For questions 6.1 – 6.6, choose the answer (A, B or C) which fits best according to what you hear. There are two questions for each extract.

Extract 1
You hear two friends discussing the topic of marketing.

6.1 Which aspect of college publicity material do the friends disagree about? (10 marks)

A how useful the environmental rating system is
B how well the different courses are described
C how visually attractive the brochures are

6.2 In the woman's opinion, companies link themselves with charities in order to (10 marks)

A boost their profits.
B improve their image in society.
C distract attention away from other issues.

Extract 2
You hear two friends talking about ways of keeping fit.

6.3 What is the woman's criticism of exercising in gyms? (10 marks)
A Members get limited access to the facilities.
B The membership cost is too high for the services offered.
C It encourages exercise habits that lead to unhealthy lifestyles.

6.4 How does the man respond to his friend's criticism? (10 marks)
A He objects to her making sweeping generalisations about gyms.
B He questions the value of excessive gym attendance.
C He suspects she'd enjoy a different type of gym.

Extract 3
You hear a woman telling a friend about living in her capital city as a student.

6.5 What is she doing during the conversation? (10 marks)
A admitting to regrets about her choice of place to study
B complaining about challenges she's had to face
C expressing her admiration for people in the city

6.6 Why does the man give the example of trees? (10 marks)
A to support her main point
B to present a counter-argument to hers
C to express a reservation about her interpretation

Part 2

You will hear a student called Josh Brady talking about visiting South Africa as part of his university course in botany. For questions 6.7 – 6.10, complete the sentences with a word or short phrase. (40 marks)

TRIP TO SOUTH AFRICA

As well as his research project, Josh planned to write a (6.7) ..... for a website while he was in Africa.
Josh's group planned to check out a particular region after a (6.8) ..... that had occurred there.
Josh was surprised to see (6.9) ..... being grown in the first area they visited.
Josh describes the vehicle they travelled in as a (6.10) .....when they went in search of specimens.

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CINEC CAMPUS
Beyond A Graduate

Faculty of Health Sciences

Bachelor of Science Honours in Biomedical Science/ Bachelor of Science Honours in Industrial Pharmaceutical Science/ Bachelor of Science Honours in Cosmetic Science

BSM 1253 Academic Writing

1st Year 2nd Semester-7th Batch

End Semester SEQ Examination

Date	**: 24th July 2024**
Time	**: 09.00 a.m. – 12.00 p.m. (Three hours)**

Question 01 **(100 marks)**

1.1 List the characteristics of academic writing. (20 marks)

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1.2 State the stages of writing process. (20 marks)

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1.3 Write two pre-writing strategies. (30 marks)

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1.4 Write the importance of grammar in academic writing. (30 marks)

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Question 02 **(100 marks)**

2.1 Define the term "Plagiarism". (20 marks)

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2.2 Mention the important components of a scientific abstract. (30 marks)

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2.3 Summarize the following passage. (Maximum word limit 50) (50 marks)

A review analyzes the most influential artificial intelligence (AI) studies in health and life sciences from the past three years, delineating the evolving role of AI in these fields. It identified and analyzed the top 50 cited articles on AI in biomedicine, revealing significant trends and thematic categorizations, including Drug Development, Real-World Clinical Implementation, and Ethical and Regulatory Aspects, among others. Our findings highlight a predominant focus on AIs application in clinical settings, particularly in diagnostics, telemedicine, and medical education, accelerated by the COVID-19 pandemic. The emergence of AlphaFold marked a pivotal moment in protein structure prediction, catalyzing a cascade of related research and signifying a broader shift towards AI-driven approaches in biological research. The review underscores AIs pivotal role in disease subtyping and patient stratification, facilitating a transition towards more personalized medicine strategies. Furthermore, it illustrates AIs impact on biology, particularly in parsing complex genomic and proteomic data, enhancing our capabilities to disentangle complex, interconnected molecular processes. As AI continues to permeate the health and life sciences, balancing its rapid technological advancements with ethical stewardship and regulatory vigilance will be crucial for its sustainable and effective integration into healthcare and research.

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Question 03 **(100 marks)**

3.1 The following graph shows the information on reported Covid-19 cases per region for year 2020-2022. Summarize the information by selecting and reporting the main features. Write at least 50 words. (40 marks)

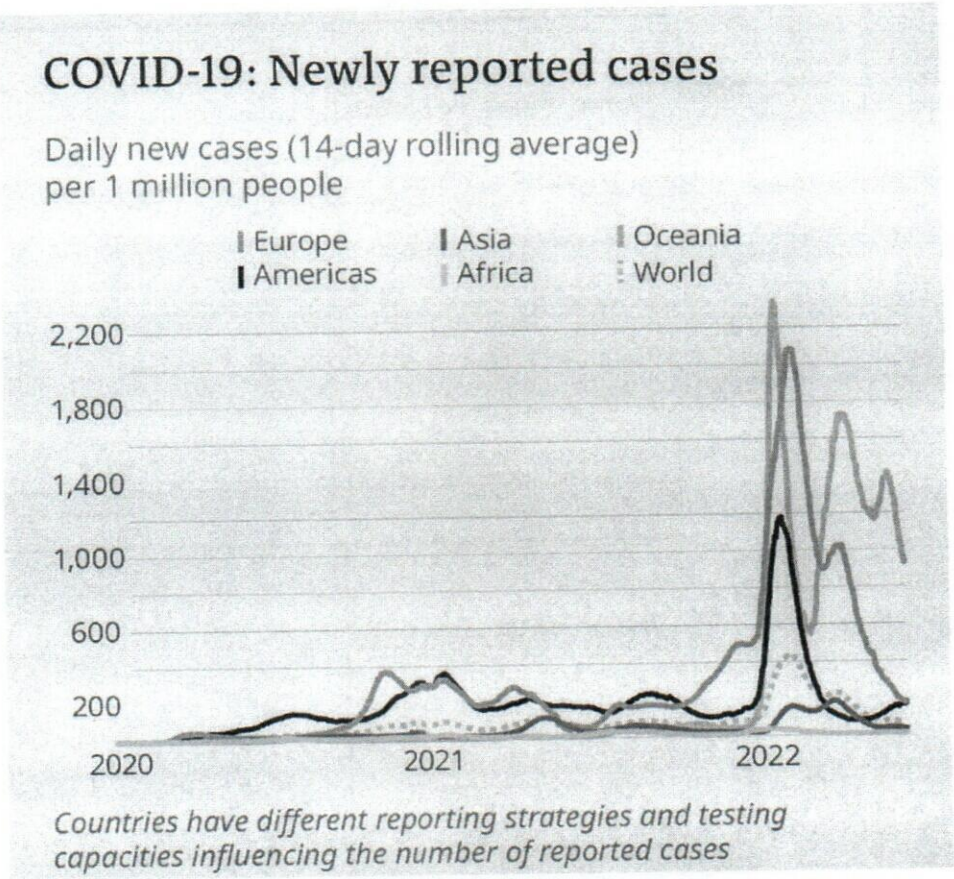


Figure 1: Reported Covid Cases vs Year

3.2 The following bar chart shows the relationship between the hemoglobin concentration and daily iron intake per day for the women older than 18 years and lower than 18 years. Compare and contrast the information by selecting and reporting the main features.
Write at least 50 words.

(40 marks)

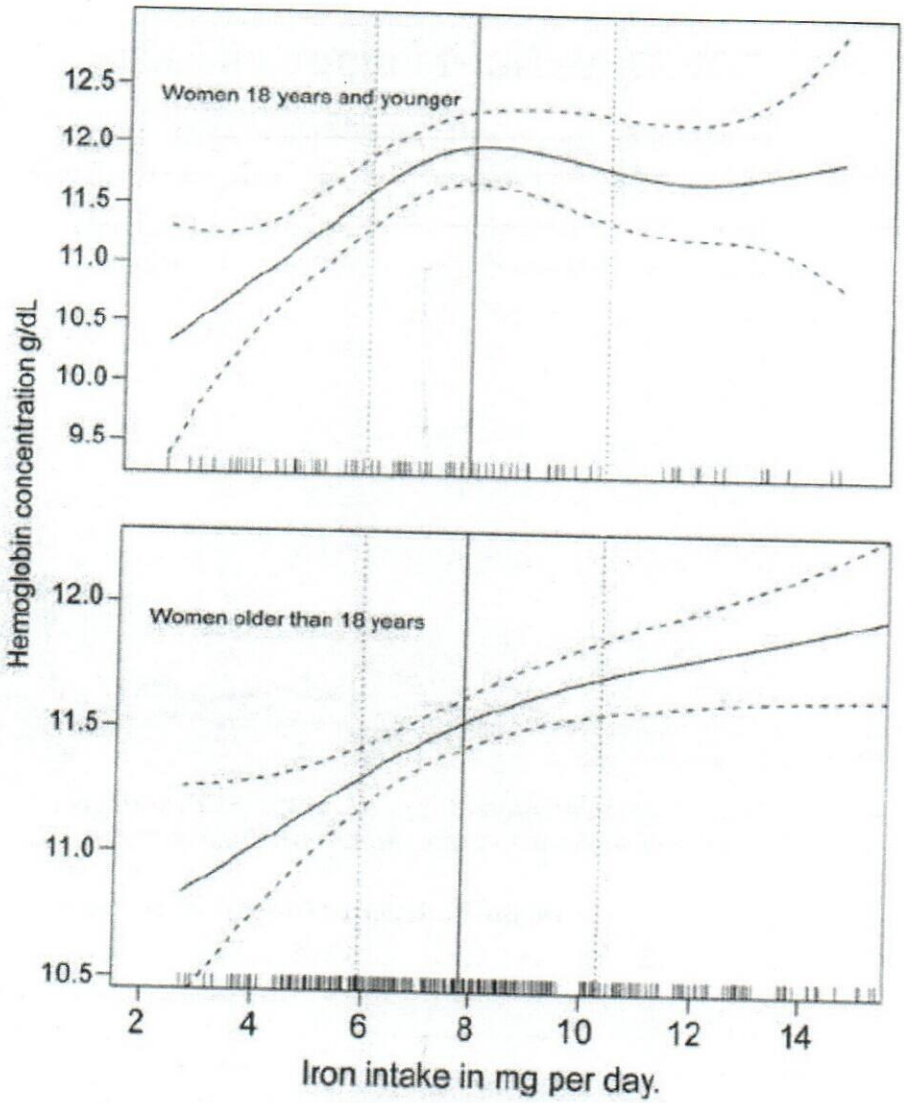


Figure 2 Daily iron intake vs Hemoglobin concentration

3.3 Number of Dengue reports have been increased from past few weeks in district of Colombo.

- *What will the possible causes of this situation?*
- *What are the solutions to be taken to reduce the Dengue reported counts?*

Write a problem-solution based essay using any type of structure. (20 marks)

Question 04 **(100 marks)**

4.1 Differentiate paraphrasing, Quoting and Summarizing. (40 marks)

4.2 Paraphrase the following sentences. (3 X 20 marks = 60 marks)

4.2.1. "The process of photosynthesis in plants converts carbon dioxide and water into glucose and oxygen using sunlight."

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4.2.2. "Newton's first law of motion states that an object will remain at rest or in uniform motion in a straight line unless acted upon by an external force."

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4.2.3. "The theory of general relativity, proposed by Albert Einstein, revolutionized our understanding of gravity by describing it not as a force between masses but as a curvature of spacetime caused by the mass of objects, fundamentally changing the way we comprehend the motion of planets, stars, and galaxies."

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Question 05 **(100 marks)**

5.1 State the importance of referencing in academic writing (20 marks)

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5.2 Name two commonly use reference styles in scientific writing. (20 marks)

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5.3 Write references for an article from the information given below using the Harvard reference style. (3 X 20 marks = 60 marks)

5.3.1 An article in the journal "Nature." The article was written by J. Doe and A. Smith in 2020. The title of the article is "The Role of Quantum Computing in Modern Physics." It was published in volume 28, spanning from page 200 to page 215.

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5.3.2 An article in the journal "Environmental Science & Technology." The article was authored by L. Brown and K. Green in 2019. The title of the article is "Impacts of Climate Change on Coastal Ecosystems." It appeared in volume 53, from page 450 to page 468.

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5.3.3 An article in the journal "Journal of Marine Biology." The article was authored by R. Thompson and J. Wilson in 2018. The title of the article is "The Effects of Plastic Pollution on Marine Life." It was published in volume 34, from page 50 to page 65.

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Question 06 **(100 marks)**

6.1. Complete the sentences using the coordinating conjunctions "and, but, or, for, nor, so". (Write only the question number and answer) (10 x 3 marks = 30 marks)

(I) The researcher collected the data carefully, _____ analyzed it thoroughly.

(II) The experiment required precise measurements, accurate observations, _____ strict controls.

(III) The theory was widely accepted, _____ it lacked empirical evidence.

(IV) The biologist discovered a new species, _____ she published her findings in a reputable journal.

(V) Climate change is a pressing issue, _____ many people still deny its existence.

(VI) The scientist conducted several trials, _____ none of them yielded conclusive results.

(VII) The chemical reaction was exothermic, _____ it released a significant amount of heat.

(VIII) The results were surprising _____ they contradicted the initial hypothesis.

(IX) The telescope was powerful, _____ it could capture distant galaxies in great detail.

(X) The professor encouraged students to ask questions _____ he wanted to foster a collaborative learning environment.

6.2. Choose the correctly spelled word from the list and write it. (10X5 marks= 50 marks)

I	chemistry	chemisty	chemestry	chemestry
II	experiment	experriment	expiriment	experament
III	Photusynthesis	photosynthisis	photosynthesis	photosyntheesis
IV	microscop	microscope	microskope	microscop
V	diseese	disease	deesease	deases
VI	temperatur	temparature	temperature	tempereture
VII	evolion	evulution	evelution	evolution
VIII	molecular	moleculer,	molecelar	molicular
IX	ecosystem	ecosistum	ecossystem	Ecossistem
X	biotecology	biotechnology	biotecnology	biotechonology

6.3 List the key elements of a CV. (20 marks)

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Examination Department
19 JUL 2024

00032

CINEC CAMPUS
Beyond A Graduate

Faculty of Health Sciences
B.Sc. (Hons) Biomedical Sciences/ B.Sc. (Hons) Industrial Pharmaceutical Sciences/ B.Sc. (Hons) Cosmetic Science
7th Batch
BSM 1233 – General Psychology
End-Semester Examination – 1st Year 2nd Semester

Date: 19th July 2024
Time: 09.00 am – 12.00 – Three Hours

Question 01 **(100 Marks)**

1.1 Name the **three (03)** Major Philosophical issues in Psychology. **(15 Marks)**

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1.2 Mention a scenario in which you have experienced the relationship between **mind and body. (20 Marks)**

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1.3 What is an emotion? **(25 Marks)**

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1.4 Briefly mention the **four (04)** stages of a sleep cycle. **(40 Marks)**

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Question 02 **(100 Marks)**

2.1 Distinguish between the two terms "**growth" and "Development".** **(10 Marks)**

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2.2 List the **four (04)** stages of Piagetian Theory of Cognitive Development. **(20 Marks)**

2.3 Briefly mention **Secondary sexual development** in the male and female body with **two (02)** examples for each sex. **(40 Marks)**

2.4

2.4.1. what is prenatal development? **(15 Marks)**

2.4.2. What is psychosexual development theory? **(15 Marks)**

Question 03 **(100 Marks)**

3.1 Define "**intelligence**". **(10 Marks)**

3.2 What is the equation for calculating an IQ score? **(20 Marks)**

3.3 Rose has a mental age of 12 and a chronological age of 10. What is her IQ would be? **(30 Marks)**

3.4 Name each of **Gardner's multiple intelligences** as they apply to the following examples. **(40 Marks)**
The first one is done for you.

Linguistic	Understanding Shakespeare
	a scientist conducting experiments and analysing data
	An architect designing buildings
	A dancer performing a choreographed routine
	A musician composing or performing music
	A therapist understanding and helping clients
	A philosopher reflecting on their own thoughts and emotions
	A gardener cultivating plants

Question 04 **(100 Marks)**

4.1 List the major subdivisions of our nervous system. **(10 Marks)**

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4.2 What is an '**action potential**' and list the main stages through which it takes place? **(20 Marks)**

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4.3 What **three (03)** important structures make up the limbic system and write their functions respectively **(30 Marks)**

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4.4 Fill in the following table with **four (04)** hormones and their respective function for each. **(40 Marks)**

Hormone	Function

Question 05

(100 Marks)

5.1 What are the **three main** areas of Industrial-organization psychology? **(10 Marks)**

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5.2 How do organizational psychology and industrial psychology differ in their focus and applications within workplace settings? **(20 Marks)**

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5.3 **List three (03)** main areas of organizational psychology and write their significance in understanding workplace dynamics and employee behaviour. **(30 Marks)**

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5.4 Briefly mention five (05) factors that cause job satisfaction in an employee with examples. **(40 Marks)**

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Question 06 **(100 Marks)**

6.1 Write the main **six (06)** functions of the brain. **(10 Marks)**

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6.2 State the difference of "Sensation" and "perception". **(30 Marks)**

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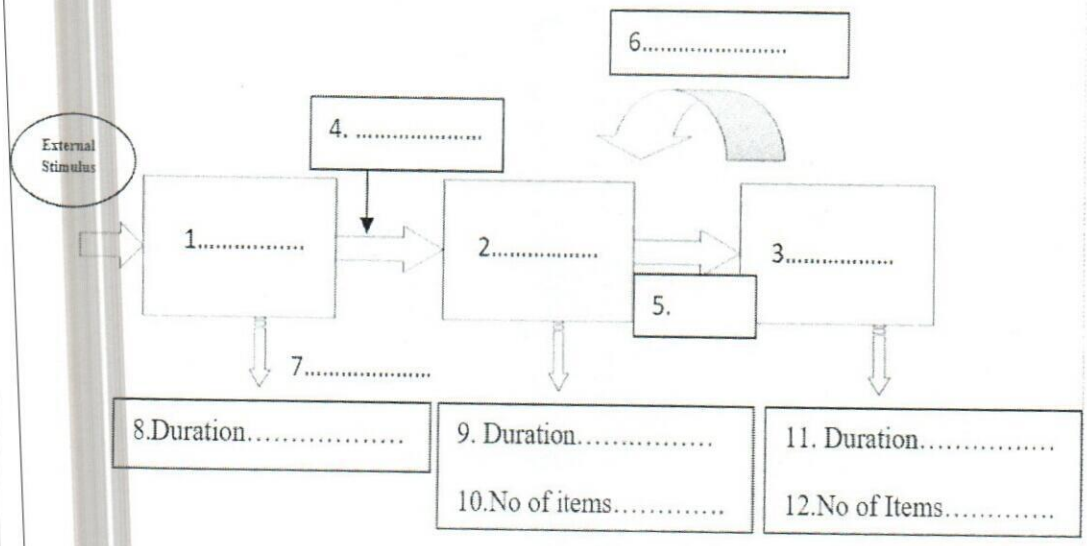
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6.3 Fill in the blanks of the below **"Multi Store Model of Memory"** **(36 Marks)**



6.4 What are the main **functions of attention ?** **(24 Marks)**

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Library

00101

CINEC CAMPUS
Beyond A Graduate

Sri Lanka (Library) Learning Resource Centre

Faculty of Health Sciences

Bachelor of Science Honours in Biomedical Science/ Bachelor of Science Honours in Industrial Pharmaceutical Science/ Bachelor of Science Honours in Cosmetic Science

BSM 1253 Academic Writing

1st Year 2nd Semester-6th Batch

End Semester SEQ Examination

Date: 25th September 2023

Time: 09.00 am – 12.00 pm (Three Hours)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **SIX** questions.
- Answer **all** questions.
- You should write legibly in black or blue ink.

Q1. **(100 marks)**

1.1 List five effective note taking methods. (20 marks)

1.2 Describe the importance of effective note taking. (25 marks)

1.3 Differentiate the charting methods and mapping method. (25 marks)

1.4 Explain the components of the Cornell note taking method. (30 marks)

Q2. **(100 marks)**

2.1 What are the steps of writing? (20 marks)

2.2 Describe the pre-writing strategies. (40 marks)

2.3 Explain the ARMS in revising with an example. (40 marks)

Q3. **(100 marks)**

3.1 The graphs below provides information on Dengue incidence in various districts in Sri Lanka with predictions (Figure 1) and figure for deviation of the Dengue incidence with the climatic factors of average monthly rainfall in district of Colombo (Figure 2). Summarize the information by selecting and reporting the main features and make comparisons where relevant. Write at least 150 words. (30 marks)

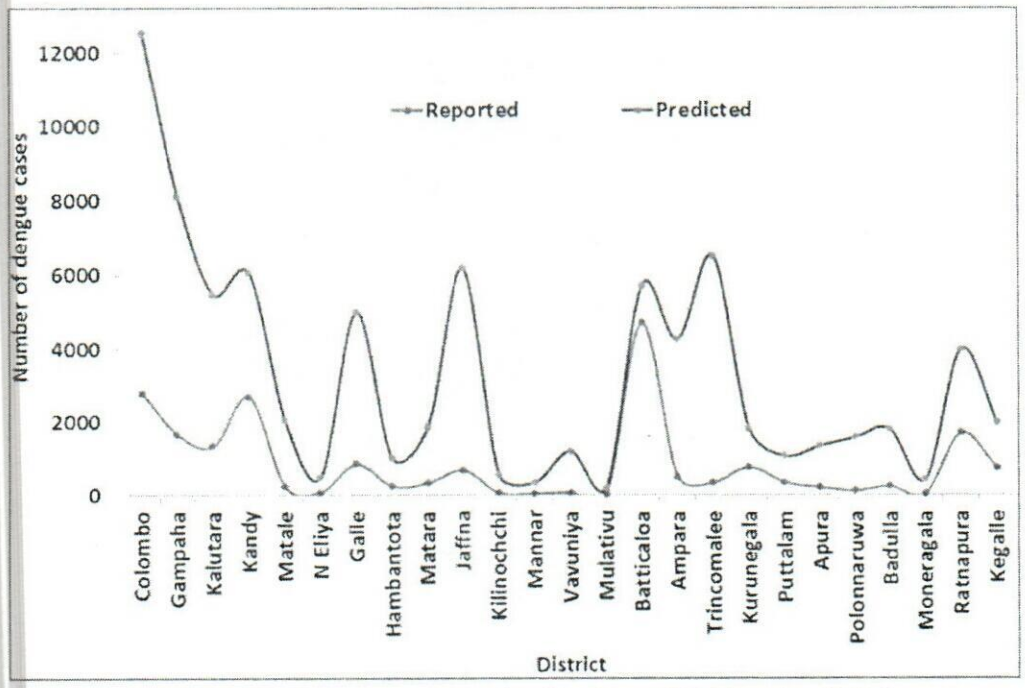


Figure 1: Dengue cases in districts of Sri Lanka (2020)

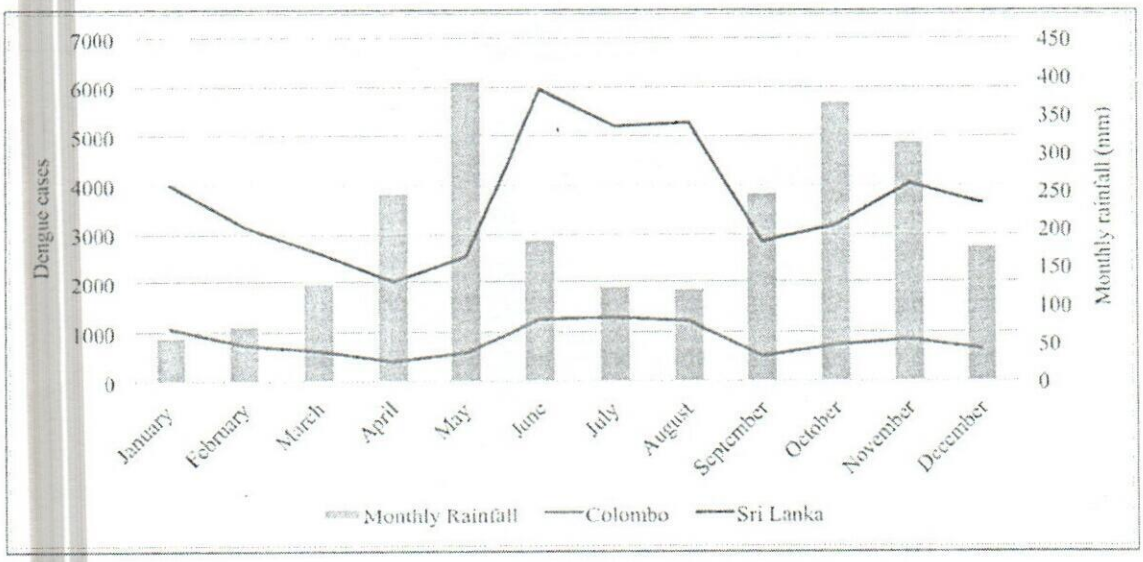


Figure 2: Deviation of the Dengue incidence with monthly average rainfall.

3.2 The table below presents the number of road accidents occurred in Sri Lanka under different categories during 2012-2018. Summaries the information by selecting and reporting the main features, and make a conclusion. Write at least 150 words. (40 marks)

Number of Road accidents features in different categories from 2012-2018

Year	Fatal accidents	Critical injuries	Minor injuries	Deaths
2012	2317	7209	14680	2444
2013	2190	6870	13525	2362
2014	2260	7071	12784	2440
2015	2601	8185	13595	2817
2016	2838	8932	14050	3020
2017	2964	8666	13102	3153
2018.11.30	2710	7686	11325	2825

3.3. Explain the importance of including tables and figures in a research paper. (30 marks)

04. **(100 marks)**

4.1 What is plagiarism? (10 marks)

4.2 Differentiate quoting, summarizing and paraphrasing. (20 marks)

4.3 Paraphrase the following sentences. (2 X 20 marks = 40 marks)

(I). It was found that, there is a significant association was observed between practices toward Food poisoning with age among dietetic students. Further, it also found a significant association between knowledge and attitude and knowledge and practice regarding Food Poisoning among Food Handlers.

(II). Sri Lanka generates 7000MT of solid waste per day with the Western Province accounting for nearly 60% of waste generation. Each person generates an average of 1-0.4kg of waste per day. According to the Waste Management Authority and the Central Environmental Authority, only half of the waste generated is collected.

4.4 Summarize the following sentences. (30marks)

"Women entrepreneurs in the developing world often face challenges that limit their chances for success and growth. They often have less access to education than men and have difficulty getting financing on their own. But with an understanding of the essential aspects of doing business – such as planning, financing, networking and marketing – they can overcome those obstacles. That's where the 10,000 Women Initiative comes in. As Faiza Elmasry tells us, it's an investment in education with dividends that benefit the businesswomen, their local communities and their national economies." (Goldman Sachs invests in Educating Women in Business, Voice of America, voanews.com)

05. **(100 marks)**

5.1 Write the importance of incorporating references in academic documents. (30 marks)

5.2 List commonly used reference styles in scientific writing. (20 marks)

5.3 Write references for an article from the information given below using the Harvard Reference style. (2 X 25 marks = 50 marks)

(I). Article was written by group of scientists names; J.G.Rizk, G.Lippi and B.M.Henry in 2022. The title is "Prevention and Treatment of Monkeypox" and published on Journal of Drugs. For the referencing, their 8th volume and 2nd issue was used and used only the pages of 957-963.

(II). Article was written by group of scientists names; Leon Biscornet, Jeanine de Comarmand, Jastin Bibi, Patrick Mavingui Henry in 2016. The title is "An Observational Study of Human Leptospirosis in Seychelles" and published on The American Journal of Tropical Medicine and Hygiene. For the referencing, their 103rd volume and 3rd issue was used and used only the pages of 999-1008.

06. **(100 marks)**

6.1 Choose the correctly spelled word from the list and write it. (10x5 marks)

I	caracteristics	charachteristics	carachteristics	characteristics
II	investigation	invastigation	Investigashion	investygation
III	obsurvational	obsorvatinal	observashional	observational
IV	execution	exicution	execsion	exycution
V	sirveys	survays	sirvuys	surveys
VI	literatur	literature	liturature	lyterature
VII	recomendation	reccomendation	recommendation	recommandation
VIII	approximately	approxymately	approximetely	aproximately
IX	adminstration	administrasion	administration	adminitration
X	difusion	dyffusion	diffussion	diffusion

6.2 Complete the sentences using the coordinating conjunctions "While, and, as, so, nor, or, for, Because, but".
(Write only the question number and answer) (10 x 3 marks= 30 marks)

(I) ..... driving his car to the Miami, Mr.Johnson met with an accident.

(II) Jane bought books, pens, pencils..... erasers from the bookshop in the university.

(III) Mr. Robert should stop consuming oily foods immediately..... he is developing fatty liver.

(IV) I forgot to take my umbrella with me .....I got soaked under the heavy rain yesterday morning.

(V) Smith has a potential to finish his research successfully.....he will be graduating soon.

(VI) The student got up very late. He could neither have something to eat.....have something to drink.

(VII) Jimmy cleaned the glassware.....Shane arranged them in the racks of laboratory.

(VIII) ..... Science teacher gave her a punishment..... she skipped classes for the third time this week.

(IX) I couldn't prepare for the examination from the beginning .....I have to stay late to study during last week.

(X) Samurai really wanted to watch a movie..... .....he had to study for the French exam.

6.3 List the key elements of a CV. (20 marks)

Library

00036

CINEC CAMPUS
Beyond A Graduate

Faculty of Health Sciences

Bachelor of Science Honours in Biomedical Science/
Bachelor of Science Honours in Industrial Pharmaceutical Science/ Bachelor of Science Honours in Cosmetic Science

BSM 1253 Academic Writing

1st Year 2nd Semester-6th Batch

End Semester SEQ Examination

Date: 25th September 2023

Time: 09.00 am – 12.00 pm (Three Hours)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **SIX** questions.
- Answer **all** questions.
- You should write legibly in black or blue ink.

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01. **(100 marks)**

1.1 List five effective note taking methods. (20 marks)

1.2 Describe the importance of effective note taking. (25 marks)

1.3 Differentiate the charting methods and mapping method. (25 marks)

1.4 Explain the components of the Cornell note taking method. (30 marks)

02. **(100 marks)**

2.1 What are the steps of writing? (20 marks)

2.2 Describe the pre-writing strategies. (40 marks)

2.3 Explain the ARMS in revising with an example. (40 marks)

03. **(100 marks)**

3.1 The graphs below provides information on Dengue incidence in various districts in Sri Lanka with predictions (Figure 1) and figure for deviation of the Dengue incidence with the climatic factors of average monthly rainfall in district of Colombo (Figure 2). Summarize the information by selecting and reporting the main features and make comparisons where relevant. Write at least 150 words. (30 marks)

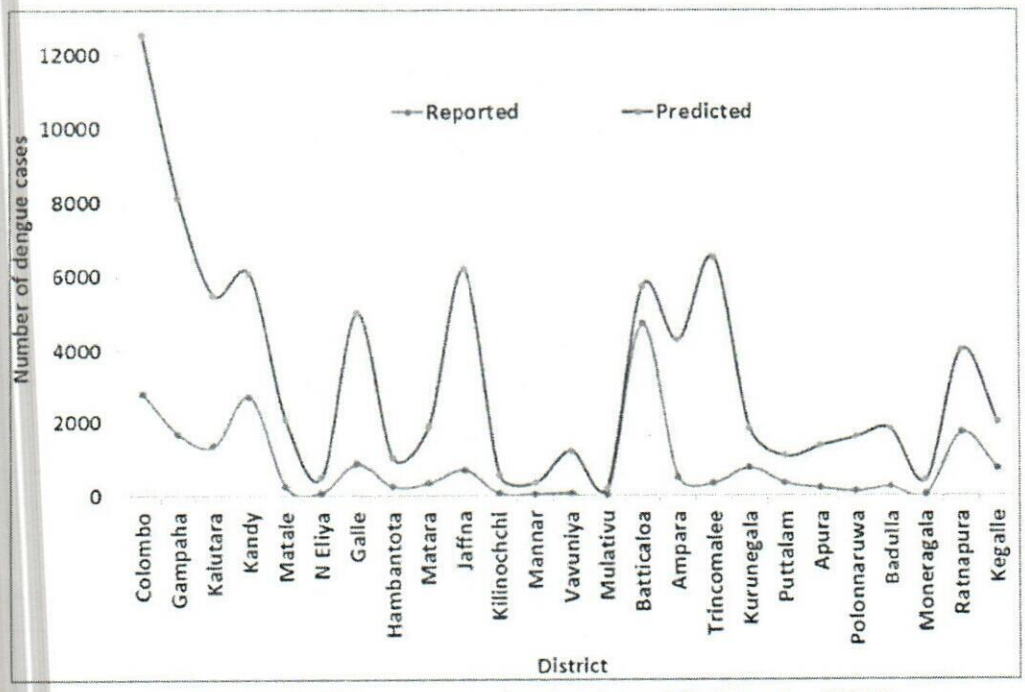


Figure 1: Dengue cases in districts of Sri Lanka (2020)

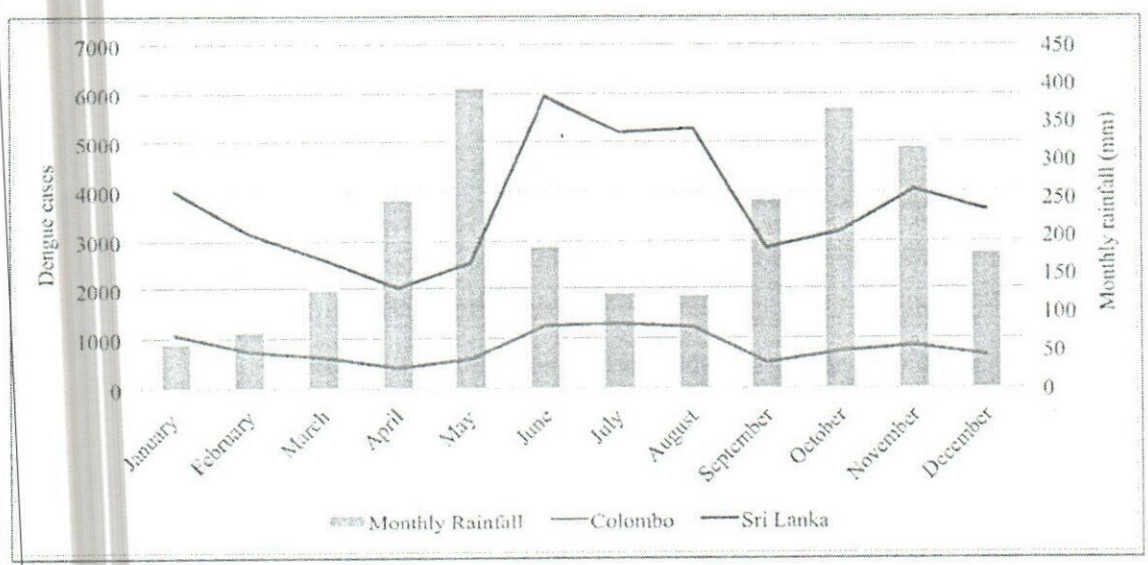


Figure 2: Deviation of the Dengue incidence with monthly average rainfall.

3.2 The table below presents the number of road accidents occurred in Sri Lanka under different categories during 2012-2018. Summaries the information by selecting and reporting the main features, and make a conclusion. Write at least 150 words. (40 marks)

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2017	2964	8666	13102	3153
2018.11.30	2710	7686	11325	2825

3.3. Explain the importance of including tables and figures in a research paper. (30 marks)

04. **(100 marks)**

4.1 What is plagiarism? (10 marks)

4.2 Differentiate quoting, summarizing and paraphrasing. (20 marks)

4.3 Paraphrase the following sentences. (2 X 20 marks = 40 marks)

(I). It was found that, there is a significant association was observed between practices toward Food poisoning with age among dietetic students. Further, it also found a significant association between knowledge and attitude and knowledge and practice regarding Food Poisoning among Food Handlers.

(II). Sri Lanka generates 7000MT of solid waste per day with the Western Province accounting for nearly 60% of waste generation. Each person generates an average of 1-0.4kg of waste per day. According to the Waste Management Authority and the Central Environmental Authority, only half of the waste generated is collected.

4.4 Summarize the following sentences. (30marks)

"Women entrepreneurs in the developing world often face challenges that limit their chances for success and growth. They often have less access to education than men and have difficulty getting financing on their own. But with an understanding of the essential aspects of doing business – such as planning, financing, networking and marketing – they can overcome those obstacles. That's where the 10,000 Women Initiative comes in. As Faiza Elmasry tells us, it's an investment in education with dividends that benefit the businesswomen, their local communities and their national economies." (Goldman Sachs invests in Educating Women in Business, Voice of America, voanews.com)

05. **(100 marks)**

5.1 Write the importance of incorporating references in academic documents. (30 marks)

5.2 List commonly used reference styles in scientific writing. (20 marks)

5.3 Write references for an article from the information given below using the Harvard Reference style. (2 X 25 marks = 50 marks)

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06. **(100 marks)**

6.1 Choose the correctly spelled word from the list and write it. (10x5 marks)

I	caracteristics	charachteristics	carachteristics	characteristics
II	investigation	invastigation	Investigashion	investygation
III	obsurvational	obsorvatinal	observashional	observational
IV	execution	exicution	execsion	exycution
V	sirveys	survays	sirvuys	surveys
VI	literatur	literature	liturature	lyterature
VII	recomendation	reccomendation	recommendation	recommandation
VIII	approximately	approxymately	approximetely	aproximately
IX	adminstration	administrasion	administration	adminitration
X	difusion	dyffusion	diffussion	diffusion

6.2 Complete the sentences using the coordinating conjunctions "While, and, as, so, nor, or, for, Because, but".

(Write only the question number and answer) (10 x 3 marks= 30 marks)

(I) ..... driving his car to the Miami, Mr.Johnson met with an accident.

(II) Jane bought books, pens, pencils..... erasers from the bookshop in the university.

(III) Mr. Robert should stop consuming oily foods immediately..... he is developing fatty liver.

(IV) I forgot to take my umbrella with me .....I got soaked under the heavy rain yesterday morning.

(V) Smith has a potential to finish his research successfully.....he will be graduating soon.

(VI) The student got up very late. He could neither have something to eat.....have something to drink.

(VII) Jimmy cleaned the glassware.....Shane arranged them in the racks of laboratory.

(VIII) ..... Science teacher gave her a punishment..... she skipped classes for the third time this week.

(IX) I couldn't prepare for the examination from the beginning .....I have to stay late to study during last week.

(X) Samurai really wanted to watch a movie..... .....he had to study for the French exam.

6.3 List the key elements of a CV. (20 marks)

Library

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CINEC CAMPUS
Beyond A Graduate

Faculty of Health Sciences

BSC. (HONS) BIOMEDICAL SCIENCE/ BSC. (HONS) INDUSTRIAL PHARMACEUTICAL SCIENCE/ BSC. (HONS) COSMETIC SCIENCE

BSM 1233 – General Psychology
End Semester Examination SEQ
1st Year 2nd Semester
6th Batch

Date: 22nd September 2023
Time: 09.00 am – 12.00 pm – Three Hours

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **SIX** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.

Question 01 **(100 Marks)**

1.1 Define 'psychology'. (10 Marks)

1.2 What is the difference between Greek dualism and monism of the body and soul? (20 Marks)

1.3 Describe **three (03)** major types of psychologists and give at least **one (01)** example of each and describe briefly the type of work they did. (30 Marks)

1.4 Explain the **three (03) main** areas of Industrial-organization psychology. (40 Marks)

Question 02 **(100 Marks)**

2.1 Name **two (02)** neurotransmitters. (10 Marks)

2.2 Describe the **four (04) lobes** of the brain and their **two (02)** functions each. (20 Marks)

2.3 Describe the structure of a neuron using a **labelled diagram.** (30 Marks)

2.4 Another characteristic shown by animals is the ability to respond to their surroundings. For example, a person may withdraw their hand from a hot object. (40 Marks)
Describe the sequence of neuron events related to the that cause this response using a graph.

Question 03 **(100 Marks)**

3.1 What is the difference between Growth and development? (15 Marks)

3.2 List **five (05)** 'reflexes of infants' related to the motor development of an infant. (20 Marks)

3.3 Describe Freud's Psychosexual Stages of Human Development with an example for each stage. (30 Marks)

3.4 "Teenagers often become angry, and stubborn and they are in constant anxiety". (35 Marks)
Explain the above sentence using the theories you have learned under Development Psychology.

Question 04 **(100 Marks)**

4.1 Define 'intelligence'. (15 Marks)

4.2 What was the equation for calculating an IQ score? Clarify what IQ, MA and CA represent. (20 Marks)

4.3 Vanessa has a mental age of 13 and a chronological age of 10. Calculate her IQ. (30 Marks)

4.4 Name each of Gardner's multiple intelligences as they apply to the following examples. The first one is done for you. (35 Marks)

Linguistic	Understanding Shakespeare
	Understanding the pattern of the tides and waves
	Understanding logical reasoning
	Knowing your strengths and weaknesses
	Fitting lots of luggage in the boot of the car
	Relating to and understanding others
	Singing a melody
	Playing netball

Question 05 **(100 Marks)**

5.1 List **three (03)** approaches to personality assessments. (15 Marks)

5.2 Outline Gordon Allport's **three (03)** kinds of personality traits. (30 Marks)

5.3 Briefly describe 'dreams.' (25 Marks)

5.4 Muscles tense and beads of sweat appear. This combination of reactions to stress is also known as the "fight-or-flight" response because it evolved as a survival mechanism, enabling people and other mammals to react quickly to life-threatening situations. Explain the body's main stress response pathway. (30 Marks)

Question 06 **(100 Marks)**

6.1 What are the main functions of 'Attention'? (10 Marks)

6.2 Briefly describe the perceptual process with an example. (25 Marks)

6.3 Describe 'the multi-store model of memory'. (25 Marks)

6.4 Malithi who is going to face the G.C.E Ordinary Level exam this year is struggling to remember her lessons. (40 Marks)
Describe **four (04)** techniques that she can use to improve her memory.

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CINEC Campus, Sri Lanka
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Learning Recourse Centre - (Library)

CINEC CAMPUS
Beyond A Graduate

Faculty of Health Sciences

Bachelor of Science (Honours) in Biomedical Sciences/ Bachelor of Science (Honours) in Industrial Pharmaceutical Sciences/Bachelor of Science (Honours) in cosmeceutical Sciences

BSM 1223 Professional English

Batch – 06
1st Year 2nd Semester
End Semester SEQ Examination

Date : **21.09.2023**
Time : **9.00 am. – 11.00 am. (Two Hours)**

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **FOUR** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.

QUESTION 01 **(100 Marks)**

Read the following passage and answer the questions.

Changing our Understanding of Health

A

The concept of health holds different meanings for different people and groups. These meanings of health have also changed over time. This change is no more evident than in Western society today when notions of health and health promotion are being challenged and expanded in new ways.

B

For much of recent Western history, health has been viewed in the physical sense only. That is, good health has been connected to the smooth mechanical operation of the body, while ill health has been attributed to a breakdown in this machine. Health in this sense has been defined as the absence of disease or illness and is seen in medical terms. According to this view, creating health for people means providing medical care to treat or prevent disease and illness. During this period, there was an emphasis on providing clean water, improved sanitation and housing.

C

In the late 1940s the World Health Organization challenged this physically and medically oriented view of health. They stated that 'health is a complete state of physical, mental and social well-being and is not merely the absence of disease' (WHO, 1946). Health and the person were seen more holistically (mind/body/spirit) and not just in physical terms.

D
The 1970s was a time of focusing on the prevention of disease and illness by emphasizing the importance of the lifestyle and behavior of the individual. Specific behaviors which were seen to increase the risk of disease, such as smoking, lack of fitness and unhealthy eating habits, were targeted. Creating health meant providing not only medical health care, but health promotion programs and policies which would help people maintain healthy behaviors and lifestyles. While these individualistic healthy lifestyles approach to health worked for some (the wealthy members of society), people experiencing poverty, unemployment, underemployment, or little control over the conditions of their daily lives benefited little from this approach. This was largely because both the healthy lifestyles approach and the medical approach to health largely ignored the social and environmental conditions affecting the health of people.
E
During 1980s and 1990s there has been a growing swing away from seeing lifestyle risks as the root cause of poor health. While lifestyle factors still remain important, health is being viewed also in terms of the social, economic and environmental contexts in which people live. This broad approach to health is called the socio-ecological view of health. The broad socio-ecological view of health was endorsed at the first International Conference of Health Promotion held in 1986, Ottawa, Canada, where people from 38 countries agreed and declared that: The fundamental conditions and resources for health are peace, shelter, education, food, a viable income, a stable eco-system, sustainable resources, social justice and equity. Improvement in health requires a secure foundation in these basic requirements. (WHO, 1986) It is clear from this statement that the creation of health is about much more than encouraging healthy individual behaviors and lifestyles and providing appropriate medical care. Therefore, the creation of health must include addressing issues such as poverty, pollution, urbanization, natural resource depletion, social alienation, and poor working conditions. The social, economic, and environmental contexts which contribute to the creation of health do not operate separately or independently of each other. Rather, they are interacting and interdependent, and it is the complex interrelationships between them which determine the conditions that promote health. A broad socio-ecological view of health suggests that the promotion of health must include a strong social, economic and environmental focus.
F
At the Ottawa Conference in 1986, a charter was developed which outlined new directions for health promotion based on the socio-ecological view of health. This charter, known as the Ottawa Charter for Health Promotion, remains the backbone of health action today. In exploring the scope of health promotion, it states that: good health is a major resource for social, economic and personal development and an important dimension of quality of life. Political, economic, social, cultural, environmental, behavioral, and biological factors can all favor health or be harmful to it. (WHO, 1986) The Ottawa Charter brings practical meaning and action to this broad notion of health promotion. It presents fundamental strategies and approaches in achieving health for all. The overall philosophy of health promotion which guides these fundamental strategies and approaches is one of 'enabling people to increase control over and to improve their health' (WHO, 1986).

1.1 Using NO MORE THAN THREE WORDS from the passage, answer the following questions.
(50 marks)

1.1.1. In which year did the World Health Organization define health in terms of mental, physical and social well-being?

1.1.2. Which members of society benefited most from the healthy lifestyles approach to health?

1.1.3. Name the three broad areas which relate to people's health, according to the socio-ecological view of health.
1.1.4. During which decade were lifestyle risks seen as the major contributors to poor health?
1.1.5. Mention the official document that details the basic information to attain health for all.

1.2 Do the following statements agree with the information in the passage. Write YES if the statement agrees with the information NO if the statement contradicts the information NOT GIVEN if there is no information on this in the passage. (50 marks)

1.2.1 Doctors have been instrumental in improving living standards in Western society.
1.2.2 The approach to health during the 1970s included the introduction of health awareness programs.
1.2.3 The socio-ecological view of health recognizes that lifestyle habits and the provision of adequatehealth care are critical factors governing health.
1.2.4 The principles of the Ottawa Charter are considered to be out of date in the 1990s.
1.2.5 In recent years a number of additional countries have subscribed to the Ottawa Charter.

QUESTION 02 **(100 Marks)**

2.1 Write the following in the passive voice. (100 marks)

2.1.1 When someone posts letters, someone sorts them out at the central post office and someone sendsthem to specified destinations and addresses.
2.1.2 The policemen arrested a mass murderer. They questioned him and took him to the courts. The judge sentenced him to life imprisonment.
2.1.3 When someone takes in food, the chemicals degrade the food. Next, the body absorbs the nutrients and removes the indigestible food.
2.1.4 When someone sends an application for a loan, the bank will verify the given information. He should also give his sources of income. After scrutiny, they will inform the applicant to come tothe bank.
2.1.5 Someone has broken a glass and scattered small pieces of glass. If someone tramples them, theywill cut their foot. Then someone must be taken to hospital immediately.

QUESTION 03 **(100 Marks)**

3.1 Find the main idea of the following passages. (100 marks)

3.1.1 Microbes, most of them bacteria, have populated this planet since long before animal life developed, and they will outlive us. Invisible to the naked eye, they are ubiquitous. They inhabit the soil, air, rocks and water and are present within every form of life, from seaweed and coral to dogs and humans. And, as Yong explains in his utterly absorbing and hugely important book,we mess with them at our peril.
3.1.2 Every species has its own colony of microbes, called a 'microbiome', and these microbes vary not only between species but also between individuals and within different parts of each individual. What is amazing is that while the number of human cells in the average person is about 30 trillion, the number of microbial ones is higher – about 39 trillion. At best, Yong

informs us, we are only 50 per cent human. Indeed, some scientists even suggest we should think of eachspecies and its microbes as a single unit, dubbed a 'holobiont'.

3.1.3 In each human there are microbes that live only in the stomach, the mouth or the armpit and by and large they do so peacefully. So 'bad' microbes are just microbes out of context. Microbes that sit contentedly in the human gut (where there are more microbes than there are stars in the galaxy) can become deadly if they find their way into the bloodstream. These communities are constantly changing too. The right-hand shares just one sixth of its microbes with the left hand. And, of course, we are surrounded by microbes. Every time we eat, we swallow a million microbes in each gram of food; we are continually swapping microbes with other humans, pets and the world at large.

3.1.4 For most of human history we had no idea that microbes existed. The first man to see these extraordinarily potent creatures was a Dutch lens-maker called Antony van Leeuwenhoek in the 1670s. Using microscopes of his own design that could magnify up to 270 times, he examined a drop of water from a nearby lake and found it teeming with tiny creatures he called 'animalcules'. It wasn't until nearly two hundred years later that the research of French biologist Louis Pasteur indicated that some microbes caused disease. It was Pasteur's 'germ theory' that gave bacteria the poor image that endures today.

QUESTION 04 **(100 Marks)**

4.1 Join the following sentences below using the linking verbs provided. (100 marks)

4.1.1 The negotiators hope to effect a smooth transition to an interim government. They expect to restore law and order in the country. [not only …but also]

4.1.2 Smokers have a right to smoke. Non-smokers have a right to breathe smoke-free air. [on the one hand…on the other hand]

4.1.3 It is important that we make a concerted effort. Ther is little chance that we will succeed in changing the law. (nevertheless)

4.1.4 The president doesn't have any concern for the plight of the people. The authorities don't have any concern for the plight of the people. [neither….. nor]

4.1.5 He applied for hundreds of jobs. He is still out of work. [despite]

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Faculty of Health Sciences
Bachelor of Science (Honours) in Biomedical Sciences/ Bachelor of Science (Honours) in Industrial Pharmaceutical Sciences/Bachelor of Science (Honours) in cosmeceutical Sciences
BSM 1223 Professional English
Batch – 06
1st Year 2nd Semester
End Semester Practical Examination

Date : **21.09.2023**
Time : **1.30 pm. – 2.30 pm. (One Hour)**

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **TWO** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.

QUESTION 01 **(100 Marks)**

1.1 Summarize the following passage using 50-60 words. (50 marks)

Having a laugh

The findings of psychological scientists reveal the importance of humour

Humans start developing a sense of humour as early as six weeks old, when babies begin to laugh and smile in response to stimuli. Laughter is universal across all human cultures and even exists in some form in rats, chimps, and bonobos. Like other human emotions and expressions, laughter and humour psychological scientists with rich resources for studying human psychology, ranging from the development of language to the neuroscience of social perception.

Theories focusing on the evolution of laughter point to it as an important adaptation for social communication. Take, for example, the recorded laughter in TV comedy shows. Back in 1950, US sound engineer Charley Douglass hated dealing with the unpredictable laughter of live audiences, so started recording his own 'laugh tracks'. These were intended to help people at home feel like they were in a social situation, such as a crowded theatre. Douglass even recorded various types of laughter, as well as mixtures of laugher from men, women, and children. In doing so, he picked up on a quality of laughter that is now interesting researchers: a simple 'haha' communicates a remarkable amount of socially relevant information.

In one study conducted in 2016, samples of laughter from pairs of English-speaking students were recorded at the University of California, Santa Cruz. A team made up of more than 30 psychological scientists, anthropologists, and biologists then played these recording to listeners from 24 diverse

societies, from indigenous tribes in New Guinea to city-dwellers in India and Europe. Participants were asked whether they thought the people laughing were friends or strangers. On average, the results were remarkably consistent: worldwide, people's guesses were correct approximately 60% of the time.

1.2 You are given 5 minutes to read the questions before the audio clip is played. The audio clip is played twice; first to identify and write the answers and secondly to check the answers. Listen to the audio and write down the answers. (50 marks)

1.2.1 Which of the following is not a common problem caused by stress?
A. Physical problems
B. Anecdotal problems
C. Mental problems
D. Emotional problems

1.2.2 Which of the following parts of the body does not have physical problems caused by stress?
A. The arms
B. The stomach
C. The lungs
D. The heart

1.2.3 Which of the following show how stress can affect emotions?
A. It can make people nervous
B. It can cause panic attacks
C. It can make people feel elated
D. It can make people feel angry

1.2.4 Which of the following can result from long-term stress?
A. Bliss
B. Depression
C. Alcoholism
D. Whimsy

1.2.5 Choose the best answer to explain how alcoholism is caused by stress.
A. Alcohol is used to relieve stress
B. Alcohol is popular
C. Alcohol is chemical
D. Alcohol is similar to medicine

QUESTION 02 **(100 Marks)**

2.1 Write an essay on one of the following topics. Use about 250 words. (100 marks)

2.1.1 Discuss "Manned space missions should now be replaced with unmanned missions".

2.1.2 Which is more effective, online or traditional classroom learning?

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BSC. (HONS) BIOMEDICAL SCIENCE/ BSC. (HONS) INDUSTRIAL PHARMACEUTICAL SCIENCE/ BSC. (HONS) COSMETIC SCIENCE

BSM 1213 Personality Development
1st Year 2nd Semester
END-SEMESTER Assignment
6th Batch

Date: 20th September 2023
Time: 13.30 pm – 14.30 pm – One Hour

INSTRUCTIONS TO CANDIDATES Page

- This question paper consists of **TWO** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.

Question 01 **(100 Marks)**

The following diagram denotes the Johari Window model prepared by Nimali to represent her own characteristics.

Known to all	Known to Self only
Known to Others only	Hidden

1.1 What is known as the Johari's Window model? (15 marks)
1.2. Do you think that Nimali has good interpersonal skills? Provide reasons for your answer. (35 marks)
1.3 Interpret your own interpersonal skills using a Johari Window model. (50 marks)

Question 02 **(100 Marks)**

2.1 What is known as emotional intelligence? (25 marks)
2.2 How would you resolve a dispute between two colleagues using emotional intelligence? (75 marks)

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CINEC Campus, Sri Lanka
Learning Recourse Center

BSM 1213 Personality Development

1st Year 2nd Semester

END-SEMESTER SEQ

6th Batch

Date: 20th September 2023
Time: 09.00 am – 12.00 pm – Three Hours

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **SIX** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.

Question 01 **(100 Marks)**

1.1 State **four (04)** factors that affect for personality development. (20 marks)

1.2 Mention **four (04)** ways in which you could convert your negative qualities so as to gain a good personality. (20 marks)

1.3 Differentiate between hard skills and soft skills. (30 marks)

1.4 Describe the effect of birth order on your personality. (30 marks)

Question 02 **(100 Marks)**

2.1 Outline the important soft skills to interact with your batchmates. (15 marks)

2.2 Write short notes on the following.

2.2.1 Importance of Clarity for effective communication (30 marks)

2.2.2 Importance of Completeness for effective communication (30 marks)

2.2.3 Barriers of communication (25 marks)

Question 03 **(100 Marks)**

3.1 Discuss the importance of communication skills to understand clients. (30 marks)

3.2 Describe the benefits of developing skills to understand the clients well. (30 marks)

3.3 As, a project manager of an organization, discuss the different skills required to understand different types of clients. (40 marks)

Question 04 **(100 Marks)**

4.1 Define the word 'change' in the organizational context. (10 marks)

4.2 Briefly describe **four (04)** causes of change. (20 marks)

4.3 Explain 'Kurt Lewin's change model' using an example. (30 marks)

4.4 Resistance to change is the most common reason why many change initiatives fail. "People resist change. It's important to recognize that managing change is about upsetting people only at a rate that they can tolerate".

4.4.1 Briefly explain **three (04)** reasons that people resist change. (20 marks)

4.4.2 Describe **two 02** techniques in reducing resistance to change. (20 marks)

Question 05 **(100 Marks)**

5.1 What is 'leadership'? (15 marks)

5.2 Discuss different types of skills required by a leading business manager to provide a quality work environment for his/her employees. (20 marks)

5.3 Briefly describe **five (05)** challenges of being a leader in the corporate sector. (25 marks)

5.4 Explain **four (04)** Types of Leadership Styles with one example for each style. (40 marks)

Question 06 **(100 Marks)**

6.1 List **four (04)** techniques that can be used in building rapport with the audience when presenting a presentation. (20 marks)

6.2 What are the characteristics of a well-functioning, effective 'group'? (20 marks)

6.3 In 1965, Bruce Tuckman, an American psychological researcher, identified five stages of group formation. (25 marks)

Briefly describe each stage of group formation.

6.4 Explain effective communication using Johari's Window model of communication with examples. (35 marks)

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BSM 1243 Foundation of Chemistry
End Semester Examination SEQ
1st Year 2nd Semester
6th Batch

Date: 19th of September 2023
Time: 09.00 am – 12.00 pm - Three Hours

INSTRUCTIONS TO CANDIDATES Page
- This question paper consists of **four** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.

Question 01 **(100 marks)**

1.1 When the initial rate of this reaction was measured at various starting concentrations of the three reactants, the following results were obtained.

experiment number	$[CH_3CHO]$ /mol dm^{-3}	$[CH_3OH]$ /mol dm^{-3}	$[H^+]$ /mol dm^{-3}	relative rate
1	0.20	0.10	0.05	1.00
2	0.25	0.10	0.05	1.25
3	0.25	0.16	0.05	2.00
4	0.20	0.16	0.10	3.20

1.1.1 Use the data from the table and write the rate equation for the reaction. (30 marks)

1.1.3 State the units of the rate constant in the rate equation. (10 marks)

1.1.4 Calculate the relative rate of reaction for a mixture in which the starting concentrations of all three reactants are 0.20 mol dm^{-3}

1.1.5 Find the half-life of $[CH_3CHO]$. (10 marks)

1.1.6 Sketch graphs for each reactants of the reaction showing how the rate of the reaction changes with the concentration. (30 marks)

1.2 This question is about equilibrium systems. An equilibrium exists in aqueous solution between the chromate (VI) ions and the dichromate (VI) ions.

Explain any change in the position of equilibrium if a few drops of sodium hydroxide solution are added to this equilibrium system. (20 marks)

Question 02 **(100 marks)**

2.1 An impure sample of ammonium vanadate (V), NH_4VO_3, with mass 0.150g, is dissolved in an excess of dilute acid. In this solution all vanadium is present as VO_2^+ ions. An excess of zinc powder is added to the solution and all the VO_2^+ ions are reduced to V_2^+ ions. The mixture is filtered to remove any remaining zinc powder.

$VO_2 + + 4H^+ + 3e^- \rightarrow V2+ + 2H_2O$

When the resulting solution is titrated, 20.10cm3 of 0.0250moldm–3 acidified MnO4 – oxidizes all V2+ ions back to VO_2^+ ions.

$MnO_4^- + 8H^+ + 5e \rightarrow Mn2+ + 4H2O$

Calculate the percentage by mass of NH4VO3 in the 0.150g impure sample of NH_4VO_3.

Give your answer to three significant figures. [Mr : NH_4VO_3, 116.9] (20 marks)

2.2

2.2.1 The table below shows the elements in the third period of the Periodic Table, the number of electrons in their outer energy level, their oxidation state in their common compo and their melting points.

element	Na	Mg	Al	Si	P	S	Cl	Ar
number of outer electrons	1	2						
oxidation state	+1	+2	+3	+4/–4	–3	–2	–1	0
melting point/°C	98	650	660	1414	317	115	–101	–189

2.2.2.1 Explain why Na, Mg and Al are good conductors of electricity. (10 marks)

2.2.2.2 Which element exists as diatomic molecules of the type X2? (10 marks)

2.2.2.3 Silicon has a similar structure to diamond. Explain why silicon has the highest melting point in the period. (10 marks)

2.2.2.4 Sodium chloride is a crystalline solid with a high melting point. It dissolves in water to give a neutral solution. Phosphorus trichloride is a liquid at room temperature. It reacts with water to form an acidic solution. Suggest an explanation for these differences in properties.

(10 marks)

2.2.2.5 Draw a dot-and-cross diagram showing the bonding in magnesium oxide. Show outer electrons only. (10 marks)

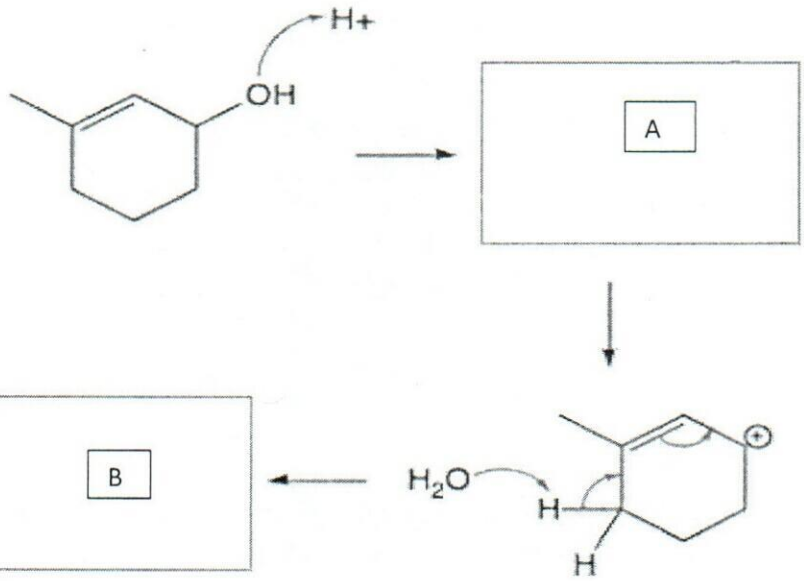
2.3 Draw the molecular orbital diagram of He^+ and figure out the bond order of the molecule. (30 marks)

Question 03 **(100 marks)**

3.1 Draw the structures for the following IUPAC names.

3.1.1 Propan -2-ol
3.1.2 1,3- hexanediol
3.1.3 2- propylcyclohexanol
3.1.4 2-pentanone
3.1.5 2,4,6-tribromophenol (25 marks)

3.2 Complete the given A and B boxes based on the arrow- pushing mechanism given below. (20 marks)



3.3 Calcium (Ca) is a S-block element and its physical and chemical properties are closely related to its electronic structure and size.

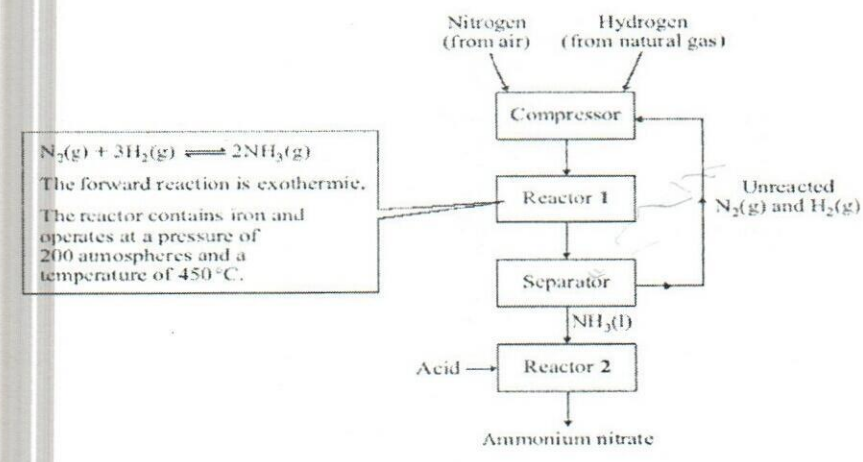
3.3.1 Write the electron configuration of Ca^{+2} according to the Hund's rule.
(Mass number of Ca is 40 $gmol^{-1}$ and the atomic number is 20) (15 marks)

3.3.2 Briefly explain why 3rd ionization energy is large compare to the 1st and 2nd ionization energy of Calcium (Ca) (20 marks)

3.3.3 Given that melting point of Ca is larger than the melting point of Ba. Explain the reason for the difference in the melting points. (20 marks)

Question 04 **(100 marks)**

4.1 The following questions are based on the Haber-Bosh process method.



4.1.1 What is the purpose of the iron in reactor 1? (10 marks)

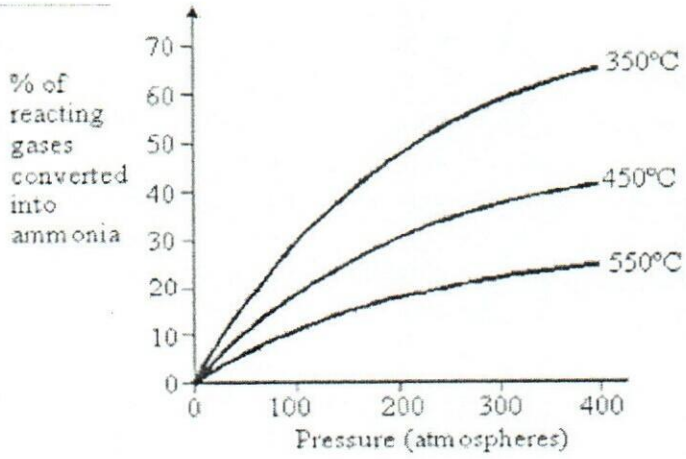
4.1.2 Write the balance reaction for hydrogen gas obtained from natural gas. Consider methane (CH_4) as the main component of natural gas. (20 marks)

4.1.3 In the separator, it consists of a mixture of ammonia, hydrogen and nitrogen. Briefly explain how to separate the ammonia from the other gases? (30 marks)

4.2 The optimum industrial conditions employed for the process are a temperature in the range of 450-500 □, and a pressure of 250-300 atm.

$N_2+3H_2 \rightleftharpoons 2NH_3 + Heat$

4.2.1 Following graph is for the yield of ammonia produced with changes made to temperature and pressure. Briefly describe the low yield of ammonia at 550□ (40 marks)



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BSc (Hons) Biomedical Sciences/ BSc (Hons) Industrial Pharmaceutical Sciences/ BSc (Hons) Cosmetic Sciences

PROFESSIONAL ENGLISH – BSM 1223

1st YEAR 2ND SEMESTER -MID EXAMINATION SEQ -BATCH 06

Date	:	**2023-05-25**
Time	:	**9. 00 A.M – 10.00 A.M (1 HOURS)**

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **TWO** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink

QUESTION 01 **(100 Marks)**

1.1 Read the following passage and answer the questions based on it.

Quantum Computing and Stimulation

Simson L. Garfinkel and Chris J. Hoofnagle

Overview

Quantum computers have garnered enormous interest and media attention because of their predicted ability to one-day crack encryption algorithms that are widely used today. While such machines would have profound impacts within both the public and private sectors, they are not predicted to become a reality for at least a decade or, by some estimates, as many as forty years—if ever. By contrast, powerful quantum simulators are nearly a reality. Their practical applications could be just two years away.

In its 2019 report on quantum computing, the U.S. National Academy of Sciences identified quantum simulators as a potentially practical, near-term commercial application of today's computers. That same year, a National Science Foundation workshop found that, while reliable universal digital quantum computers are "likely decades away," special- purpose machines built to solve specific problems beyond the range of today's conventional computers "offer extraordinary opportunities for applications realizable on a 2-5 year time scale." Indeed, even if a "quantum winter" of decreased investment due to inadequate progress in large-scale general-purpose quantum computing occurs, quantum simulators might nonetheless rapidly move from the laboratory to practice.

What is a quantum computer?

Quantum computers take a different approach to computing from traditional digital machines, one based on calculating probabilities instead of discrete values. Rather than processing bits that can represent only a 0 or 1, they compute with qubits (quantum bits), which can initially represent many values.

Quantum computers then manipulate the qubits with mechanisms called quantum gates, causing the qubits to change over time. Finally, each qubit is measured by a conventional computer and converted to a 0 or 1 that the ordinary digital computer can record. This process may need to be repeated many times for a single quantum computation. These inherent differences in structure and methodology between standard digital and quantum computers make each best suited to very different kinds of calculations.

What is a quantum simulator?

Computer simulations produce insights into the behavior of real-world phenomena by using algorithms and data to create dynamic models of relevant processes. The term quantum simulator as used here refers to specialized quantum computers tailored to performing such simulations (rather than conventional computers simulating quantum phenomena). When Nobel laureate Richard Feynman proposed the idea of quantum computing back in 1981, he envisioned a new kind of computer that could directly simulate the quantum mechanical behaviors of atoms and subatomic particles using those same mechanisms. Feynman didn't know how such a computer could be built or how it would work, but he knew it would be the only way to simulate the physics of increasingly complex systems in a computer without requiring exponentially longer processing times.

Ordinary computers always generate the same output from the same input. Quantum computers, however, perform their computations using an ensemble of quantum particles that don't produce definite answers. Instead, they identify how probable particular answers are from multiple possibilities. As a result, the architecture of these computers simulates what physicists believe happens in a real mechanical system. That allows quantum computers to directly and efficiently model the quantum interactions of other such systems, thus enabling the simulation of extremely complex phenomena.

Quantum simulation poses promise and peril

Like any disruptive technology, quantum simulation has both enormous positive and negative potential for science, industry, and society:

- *Computing*. Just as early success in traditional digital computers was leveraged to design more powerful computers, quantum simulators may hold the key to hastening the development of a practical, general-purpose quantum computer. As simulators scale up in size, they may enable breakthrough discoveries in materials science that would make general-purpose quantum computers more feasible. Advances in traditional digital computers were produced and shared by many. Given their likely extraordinary monetary value, however, proprietary leaps in quantum computing technology might be held close by their early developer(s). If then used to produce yet more-robust quantum computers, a definable risk exists that such technology could be "captured" by a single actor

that would enjoy asymmetrical market advantages with potentially profound economic and social effects.

- ***Critical Industry***. Less publicly familiar applications of quantum simulation technology may be equally profound and valuable. Nitrogen fixation, for example, is a key process in food and pharmaceutical production, as well as in many other industries. Currently, it occurs naturally with just air, water, sunlight, and microbes. Quantum simulation is ideally suited to advancing our understanding of the complex natural interactions that produce nitrogen fixation so that we can create more efficient industrial fixation processes.

(20 marks)

1.1.1 In a report in 2019 on quantum computing, it was identified that,

i. Quantum computers have garnered enormous interest and media attention because of their predicted ability to one-day crack encryption algorithms.
ii. Quantum simulators are potentially practical, near-term commercial applications of today's computers.
iii. Quantum simulators are not predicted to become a reality for at least a decade.
iv. Quantum computers' practical applications could be just two years away.

1.1.2 Quantum computers process with _____.

i. Bits
ii. Bytes
iii. Gigabytes
iv. Qubits

1.1.3 Underline the incorrect statement.

i. Quantum computers take a different approach to computing from traditional digital machines.
ii. Quantum computers manipulate the qubits with mechanisms called quantum gates.
iii. Quantum simulator refers to specialized quantum computers tailored to perform digital algorithms.
iv. Ordinary computers always generate the same output from the same input.

1.1.4 Less publicly familiar applications of _____ technology may be equally profound and valuable.

i. Quantum particle
ii. Quantum simulation
iii. Quantum computer
iv. Quantum mechanical

1.2 Find similar words for the following from the text. (20 marks)

i. The process of converting information or data into a code, especially to prevent unauthorized access.
ii. Lacking the quality or quantity required; insufficient for a purpose.
iii. Existing in something as a permanent, essential, or characteristic attribute.
iv. Having parts that fail to correspond to one another in shape, size, or arrangement; lacking symmetry.

1.3 Write a formal email to the Dean of your Faculty, requesting a medical camp organized within your university. Use 80-100 words. (60 Marks)

QUESTION 02 **(100 Marks)**

2.1 Write a letter selecting one situation from below, using approximately 150-200 words.

2.1.1 You recently took a holiday organized by a travel agent, but the standard of the accommodation was very poor. You feel misled by your travel agent because their advertisements made false or misleading claims about the hotel, the location, the city etc. Write a letter to the company outlining the problems you experienced with the accommodation and actions you want them to take.

2.1.2 Write a letter to Ms. Rochelle Ferdinand, HR Manager, Medihelp Hospital, Kandawala Road, Dehiwala-Mount Lavinia, enquiring about the possibility to pursue a career as an intern in Medical Laboratory Technologist for the internship requirement of your degree. You are Sonali/Sonal Wijerathna, No. 25, Richmond Road, Modara.

(100 marks)

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BACHELOR OF SCIENCE HONOURS IN MEDICAL HEALTH MANAGEMENT
BSM 1243 FOUNDATION OF CHEMISTRY
BATCH 06- 1st YEAR SECOND SEMESTER-MID SEMESTER EXAMINATION

Date: 2023.05.24
Time: 09.00 am – 10.00 am – ONE HOUR

INSTRUCTIONS TO CANDIDATES Page
- This question paper consists of **TWO** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.

Question 01 **(100 marks)**

1 .Consider the following molecules: H_2O, CO_2, NH_3, and CH_4.

1.1. Draw the Lewis structures for each molecule, indicating the placement of all valence electrons. (30 marks)
1.2. Determine the type of chemical bonding (ionic, covalent, or metallic) in each molecule. (20 marks)
1.3. Identify the polarity (polar or nonpolar) of each molecule and explain your reasoning. (20 marks)
1.4. Compare the bond angles in each molecule and explain any variations observed. (20 marks)
1.5. Based on the Lewis structures and bonding types, predict and explain the relative melting and boiling points of the molecules. (10 marks)

Question 02 **(100 marks)**

2. Consider the molecules H_2, O_2, N_2, CO

2.1 Draw the molecular orbital diagrams for each molecule, indicating the placement of all electrons in the molecular orbitals. (40 marks)

2.2 Identify the bond order for each molecule and explain its significance in terms of stability and bond strength. (20 marks)

2.3 Determine whether each molecule is paramagnetic or diamagnetic and describe the reasons. (20 marks)

2.4 Compare the bond lengths in each molecule and explain any variations observed. (20 marks)

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Faculty of Health Sciences

BSC. (HONS) BIOMEDICAL SCIENCES/ BSC. (HONS) INDUSTRIAL PHARMACEUTICAL SCIENCES/ BSC. (HONS) COSMETIC SCIENCE

BSM 1233 – General Psychology

MID-SEMESTER EXAMINATION – 1st Year 2nd Semester

Date: 23rd of May 2023
Time: 09.00 am – 10.00 am – One Hour

INSTRUCTIONS TO CANDIDATES Page
- This question paper consists of **TWO** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.

Question 01 **(100 Marks)**

1.1 Name **three (03)** behaviourist psychologists. (15 Marks)
1.2 Describe the **four (04)** main goals of Psychology with an example for each. (30 Marks)
1.3 Define '**Attribution Theory'.** (15 Marks)
1.4 Describe the **four (04)** key areas of '**Social Influence'**. (40 Marks)

Question 02 **(100 Marks)**

1.1 Briefly explain the effect of **two (02)** neurotransmitters on human behaviour. (10 Marks)
1.2 Explain the **'limbic system'** and its functions. (35 Marks)
1.3 Define '**personality'.** (15 Marks)
1.4 Describes personality in terms of the 'Five-Factor Model of Personality'. (40 Marks)

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CINEC CAMPUS
Beyond A Graduate

Faculty of Health Sciences

Bachelor of Science Honours in Biomedical Sciences / Bachelor of Science Honours in Industrial Pharmaceutical Sciences / Bachelor of Science Honours in Cosmetic Science

BSM 1223 Professional English

1st Year 2nd Semester

Batch 03

End Semester SEQ Examination

INDEX NUMBER: .....

Date : 29th June 2021
Time : 09.00 am – 11.00 am (Two Hours) - To answer the questions
11.00 am – 11.30 am (30 minutes) - To upload & email the compiled answer script

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INSTRUCTIONS TO CANDIDATES

- This question paper consists of **SIX** questions.
- Answer **ALL** questions.
- The paper will be for two hours (9.00 am – 11.00 am). You will be given an extra 30 minutes for submission.
- You should write **answers in lined papers** legibly in black or blue ink.
- You MUST write **your index number in the top right corner** of each answer script.
- **Answer script should be numbered** (right bottom) clearly.
- Photograph of your answer scripts must be taken by keeping them on a clear platform (e.g. table).
- Arrange the photographs of your answer script in a word document in an orderly manner, then convert the word document to a **PDF**.
- **Label the PDF: Your Index No – Professional English SEQ**
- **Upload** the labelled **PDF to LMS AND** also **email** the PDF to Fohs.exams@cinec.edu

Question 01 **(100 marks)**

Read the passage and answer the questions given below.

1. Plants have adaptations to help them live and grow in different areas. They can even grow in water. They develop many different adaptations for their survival. One example is plants growing in the desert areas of the world. Desert plants take in a lot of water quickly when it rains. Since it does not rain very often, the plants must store the water in their stems, which have a thick, waxy coating which helps seal in the water.

2. The spines on some desert plants also help with their survival by keeping away animals who want to eat them. The spines also act like leaves holding in the water during the hot weather. Cactus plants need to store a lot of water. Some desert plants have leaves with hair to shade them from the sun. These hairs help stop water loss, too. Other plants in the desert turn away from the sun during the day and receive less heat. Some desert plants overcome the problem of the lack of water by growing long roots that go deep into the ground for water. The plants who choose to fight to live have special stems and roots to absorb and store water deep under the ground.

3. Hot sun and heavy rains make the best areas for plants and animals to grow. Over half of all plant types live in the tropical rainforests. Tropical rainforests are the places where plants grow the best. The trees grow very close together. They need the sun to make food. In a thick forest where there are a lot of trees, plants cannot reach the sun easily. They may not live. In order to reach the sun, plants have to grow or climb on others. Only 2 percent of sunlight reaches the forest floor. The ground is very damp.

4. Water carries food from the soil up to the plant so that the plant may live. If the ground is dry, the plant won't get enough water to carry the food. Plants absorb their nutrients from the soil. The nutrients are taken up through the stems of many plants to feed the plant. Because rainforests get large amounts of rain, too much water can also be damaging to plants. An adaptation called a drip-tip on leaves allows the water run-off to save the plant from getting too much moisture.

5. In grasslands, also called prairies, plants must adapt to the dry climate where the summers are hot and the winters are cold. Because it is very dry, the roots go way below the ground to reach the water. If they need protection from animals, the plants may have thorns or spikes. Strong steady winds blow over the grasslands and remove the water from the ground or air so trees usually cannot grow there.

6. In a tundra, it is very dry and cold. The blanket of snow covering the tundra in winter helps plants keep warm and protects them from damaging winds. Roots of tundra plants grow just under the surface of the ground where they can be close to the melting snow. It

also keeps plants from freezing. Collecting this water is very important for these plants because the high winds can dry them out easily.

7. Finally, thousands of plant types grow in water all over the world. Ocean seagrass has stems that enable them to cope with the tugging of currents and waves. Roots grow down to anchor the plant to the seabed, while other blades grow straight up and bend easily. Ocean plants also have to be able to handle the dissolved salt in the water. They have the ability to break down the salt into different parts. This can cause beds of oceanic plants to control the amount of salt in the water surrounding them.

8. Plants are found all over the world because they have developed adaptations to survive the different climates.

I. How do the desert plants preserve water? Write three mechanisms that they have adapted.

II. Other than preserving water what is the other challenge that the desert plants must face?

III. What is the mechanism that these plants use to face the difficulty mentioned in the above answer (ii)?

IV. Where do half of all the plants live in the world?

V. Where do the plants grow best in the world?

Question 02 **(100 marks)**

Write the main idea of the given paragraphs in one sentence.

1. It is often said that lightning never strikes twice in the same place, but this isn't true. Go ask the forest rangers. Rangers who spend their summers as fire-fighters will tell you that every thundershower brings several bolts of lightning to their lookout stations.
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2. Advertising affects our lives everyday. Brand names are common household words. We start each day using the toothpaste, soap, and breakfast foods promoted by advertisers. Ads have made the cars we drive signs of our success. Our choices of food, dress, and entertainment are swayed by ads. Not one aspect of American life is untouched by advertising.
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3. Penicillin is one of the greatest of the wonder drugs. It has saved thousands of lives already and will save many more in the future. Unfortunately it has no effect at all on most of the ills of mankind. Penicillin is a very good drug, but it is certainly not a cure-all.
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4. Do you wear glasses? Make sure your glasses fit well. The earpieces should be at eye level. Don't try to adjust the earpieces yourself. Take your glasses for adjustments to the place you bought them. Keep your glasses in a case when you're not wearing them. This will prevent scratches. Keep the lenses clean. A soft cloth is best for cleaning.
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5. There are great numbers of deer around here. This whole area is great country for hunters and fishermen. There are bears, mountain lions, and coyotes. To the east there are streams full of trout, and there are ducks and geese
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Question 03 **(100 marks)**

Fill in the blanks using the linking words given in brackets.

1. Shevon stayed inside ..... the storm. (because / because of/ since)
2. The Manager wanted to stay longer ..... he was really enjoying the party. (since / because of/ due to)
3. Amanda stayed at home ..... her illness. (as / due to/ because)
4. Her lateness was ..... a terrible traffic jam. (due to / as/ because)
5. ..... flights are cheaper in the winter, we decided to travel then. (since / owing to/ although)
6. ..... she hated cats; she wasn't happy when her husband bought three. (as / because of/ provided)
7. The delegates were late for the plane ..... the traffic. (because of / because/ although)
8. ..... the terrible weather, we decided not to have the office party. (as / due to/ nevertheless)
9. ..... its high price, we did not rent the flat. (owing to / because/ nevertheless)
10. ..... of the cold, she went out in shorts. (due to / in spite / however)

Question 04 **(100 marks)**

Rewrite the following sentences correcting any errors.

i. Are you believing in destiny?

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ii. He has always earned a honest living.

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iii. Do you know where is the restaurant?

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iv. I would have bought a luxurious house, if I had money.

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v. How long time did you work in the private sector?

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Question 05 **(100 marks)**

Write a paragraph about a new invention that you would create in 100 words.

Indicate your topic sentence, supporting sentences and concluding sentence.

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Question 06 **(100 marks)**

Write down an argumentative essay on:

1. "Does climate change under the influence of human?"
   Or
2. "Will we have flying cars in 20 years?"

The word count should not be more than 125.

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CINEC CAMPUS
Beyond A Graduate

Faculty of Health Sciences

Bachelor of Science Honours in Biomedical Sciences / Bachelor of Science Honours in Industrial Pharmaceutical Sciences / Bachelor of Science Honours in Cosmetic Science

BSM 1223 Professional English

1st Year 2nd Semester

Batch - 04

Mid Semester SEQ Online Examination

INDEX NUMBER: .....

Date : 12th May 2021
Time : 09.00 am – 10.00 am (One Hour) - To answer the questions
10.00 am – 10.15 am (15 minutes) - To upload & email the compiled answer script

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INSTRUCTIONS TO CANDIDATES

- This question paper consists of **TWO** questions.
- Answer **ALL** questions.
- The paper will be for one hour (9.00 am – 10.00 am). You will be given an extra 15 minutes for submission.
- You should write **answers in lined papers** legibly in black or blue ink.
- You MUST write **your index number in the top right corner** of each answer script.
- **Answer script should be numbered** (right bottom) clearly.
- Photograph of your answer scripts must be taken by keeping them on a clear platform (e.g. table).
- Arrange the photographs of your answer script in a word document in an orderly manner, then convert the word document to a **PDF**.
- **Label the PDF: Your Index No – Professional English SEQ**
- **Upload** the labelled **PDF to LMS AND** also **email** the PDF to Fohs.exams@cinec.edu

QUESTION 01 **(100 marks)**

Part A **(40 marks)**

Read the paragraph and write down the function of the highlighted linking devices.

In today's society, modern technology is evidently developing rapidly and it is portrayed as a negative impact. It can be seen that technology is a substitution of all characteristics of life. The purpose of every technological invention is to benefit the lives of mankind; **thus** re-enforcing the positive connotation of technology. **However**, in long term it may not be beneficial; **such as**, education, work and leisure are all becoming dependent on technology; cyberspace is dangerous and child obesity is increasing in the society.

Cyberspace is a non-physical environment created by computers interoperating on a network. People can interact in ways that are similar to reality, but does not require physical movement beyond typing. Advanced technology established this parallel world, 'cyberspace'. This can be convenient for people to chat, shop, share, explore or research online, **but** it can also be a disadvantage at the same time. The prime examples of the disadvantages are, people are able to create fake, imaginative identities and use it to abuse others and this can lead to serious issues, such as sexual abuse or child grooming; and since, the Internet can be recognized as a parallel world to reality, this discourages people to have face-to-face human interaction. **Consequently**, cyberspace can be harmful to all people, because there are hardly any restrictions on the Internet. Technology inaugurated this and it is having an inimical influence on the majority of people who have access to the Internet on a daily basis.

1. .....
2. .....
3. .....
4. .....
5. .....

Part B **(60 marks)**

Paraphrase the following texts.

I. "Science knows no country, because knowledge belongs to humanity, and is the torch which illuminates the world. Science is the highest personification of the nation because that nation will remain the first which carries the furthest the works of thought and intelligence."
(Louis Pasteur)

II. "Death rates for males are substantially higher than for females for every age group of children and youth, but the largest difference occurs among teens, ages fifteen to nineteen" (Goutas et al., 2011. P.11).

III. "Of the more than 1000 bicycling deaths each year, three fourths are caused by head injuries. Half of those killed are school-age children. One study concluded that wearing a bike helmet can reduce the head injury by 85 percent. In an accident the bike helmet absorbs the shock and cushions the head. From "Bike Helmets: Unused Lifesavers," Consumer Reports (May, 1998) :348.

QUESTION 02 **(100 marks)**

Write an essay on one of the following topics. (175 – 200 words)

a) Do you agree or disagree with the following statement? Modern technology is creating a single world culture. Use specific reasons and examples to support your opinion.

b) What discovery in the last 100 years has been most beneficial for people in your country? Use specific reasons and examples to support your choice.

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CINEC CAMPUS
Beyond A Graduate

Faculty of Health Sciences

B.Sc. (Hons) Biomedical Sciences/ B.Sc. (Hons) Industrial Pharmaceutical Sciences/ B.Sc. (Hons) Cosmetic Science

7th Batch

BSM 1213 – Personality Development

End-Semester Examination – 1st Year 2nd Semester

Date: 15th July 2024
Time: 09.00 am – 12.00 – Three Hours

Question 01 **(100 Marks)**

1.1 Define the term "Soft Skills". **(20 marks)**

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1.2 **State four (04)** main soft skills. **(20 Marks)**

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1.3 Write different types of communication skills. **(30 Marks)**

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1.4 Write the importance of soft skills in the real world. **(30 Marks)**

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Question 02 **(100 Marks)**

2.1 Define the term "Interpersonal Skills". **(10 marks)**

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2.2 Briefly describe **four (04)** main interpersonal skills used in the workplace. **(20 Marks)**

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2.3 How would you differentiate intrapersonal skills and interpersonal skills separately? **(30 Marks)**

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2.4 Describe the self-concept cycle. **(40 Marks)**

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Question 03 **(100 Marks)**

3.1 Define formal and informal groups with examples of each. **(20 Marks)**

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3.2 What steps should be taken to build an effective team? **(20 Marks)**

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3.3 What are the advantages and disadvantages of working in a team? **(20 Marks)**

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3.4 Write the Bruce Tuckman's five stages of group formation. **(40 Marks)**

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Question 04 **(100 Marks)**

4.1 What is the importance of changing for an organization? **(20 Marks)**

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4.2 Write the **four (04)** reasons why people resist change in an organization. **(30 Marks)**

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4.3 Write about **'Kurt Lewin's change model'** using an example. **(30 Marks)**

4.4 Write **five (05)** techniques for reducing resistance to change. **(20 Marks)**

Question 05

(100 Marks)

5.1 List **five (05)** challenges of being a leader in an organization. **(30 Marks)**

5.2 Differentiate the personalities of a boss and a leader. **(30 Marks)**

5.3 Write **four (04)** Types of leadership styles with one example for each style. **(40 Marks)**

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Question 06 **(100 Marks)**

6.1 What is self-awareness? **(10 Marks)**

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6.2 What is emotional intelligence? **(20 Marks)**

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6.3 State five (05) components of emotional intelligence with an example for each. **(40 Marks)**

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6.4 Provide an example for **Black and White thinking**. **(30 Marks)**

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