



PAST PAPERS

Faculty	Department / Section/Division
Not Applicable	Learning Resource Centre

Past Papers

**Education & Training Course: B.ED  
(HONOURS) In Information Technology**

**(Year 2 – Semester I)**

**2021 - 2022**

Document Control & Approving Authority	Senior Director – Quality Management & Administration
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00039



MID SEMESTER EXAMINATION QUESTION PAPER

Code - 2P

Approved for Quality Management System

EDUCATION & TRAINING COURSE: B.Ed (HONOURS) IN INFORMATION TECHNOLOGY

COURSE CODE: LC - 0851

YEAR 2 - SEMESTER I

COMPUTER GRAPHICS AND MULTIMEDIA - BDI4064

Faculty	Department / Section / Division
Humanities and Education	Education Department

Instructions to Candidates	Date of the examination: 2022.10.28
Candidates could be disqualified if you violate examination rules.	Duration of the examination = 1 1/2 hours
Candidates are not allowed to communicate with and disturb fellow candidates during the examination.	Total Marks = 100 Marks

Software Requirement

In order to complete following assignment, you will need following free/open source software.

1. GIMP
2. Vectorian Giotto
3. IE or any other Flash Player
4. SWIVEL converter Tool

**Task Breakdown**

All projects and export files must be saved in a separate folder. Name folder with following syntax. <Your Reg/IndexNo>\_CGM\_Assessment1

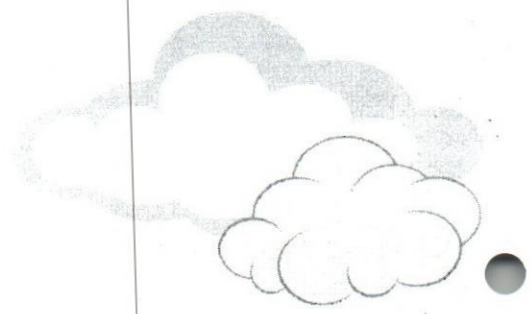
You are required to create an animated flower garden. It must include plants, clouds on distant sky with flowers and common insects. Flying insects and several flower plants must be animated to show them flying around while one or two plants move with wind. Animate few clouds to move as well.

**Task 1 – Drawing and painting a background image and moving elements with GIMP (40 marks)**

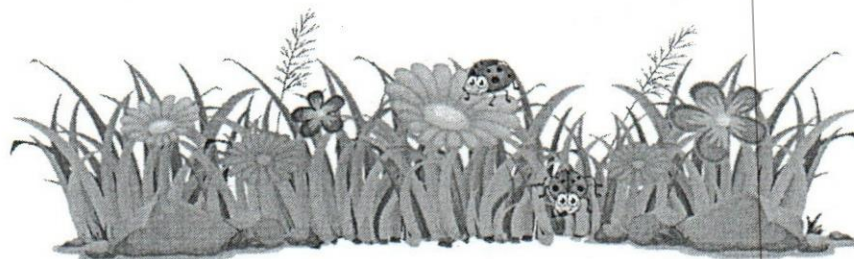
The final animation screen size must be 1024px x 768px. Using GIMP, draw different elements in a flower garden of your own with sizes to fit animation screen size above. Imagine few insects such as butterflies, dragon flies and other bugs or even a frog. Draw plants with colorful flowers

and different types of leaves. Make sure to draw each element in separate layers so that you can transfer each part of the art to animation tool.

Create 2 or 3 variations of Clouds. Use gradients and other effects to make them look more artistic and appealing.



Draw the non-moving background part in a separate layer. Save the file as CGM\_Garden1 and export a PNG files with different names for use in animation.



\*\* Do not copy above graphics. Use them as a reference to visualize your artistic mind. (pics from\_brgfx / Freepik)

**Task 2 – Animating the insects, clouds and plants through clouds with Vectorian Giotto (60 marks)**

1. Import the drawings from GIMP as separate PNG paintings to Library.
2. Using Vectorian Giotto, create movie clip symbols showing self-animating clouds, plants and insects with their wings moving
3. Now create an animation by placing your animated movie clips on main timeline. Show few flying animals, few plants swinging to wind and multiple clouds moving. Do not exceed the length more than 5 minutes.
4. Save the project as CGM\_anim.vgd. Export this animation into a SWF file. Preview it using Internet Explorer or any other Flash player.
5. Using the Swivel tool, convert the SWF to AVI or MP4 video

**Task 3 – Compress your work folder and upload for marking**

By now you must be having all project files for each software i.e. GIMP project file, png files, vgd file, SWF file and final MP4 file in a single folder.

Compress this folder into a .zip file with the file name in the given syntax and upload to LMS assignment. Note that the Maximum file size of zip file is 50 MB on LMS

Upload file format

Your Reg/IndexNo>\_CGM\_Assessment1.zip

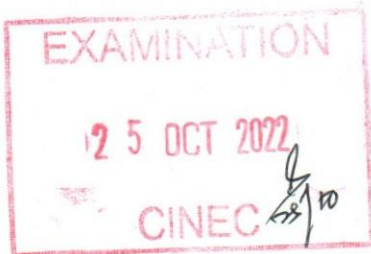
**\*\* There will be no marks awarded if the drawings are not your own or copied images from other sources. The GIMP project file must indicate your paint work.**

**\*\* 0 marks awarded if GIMP and Vectorian Giotto project files are not uploaded.**

**\*\* 0 marks awarded if content is identical to other students. Ensure your files are collected by the examiner before leaving computer Lab.**

-----END OF EXAMINATION PAPER-----





Library

00036



MID SEMESTER EXAMINATION QUESTION PAPER

CODE - QP

Approved for Quality Management System

EDUCATION & TRAINING COURSE: B.ED (HONOURS) IN INFORMATION TECHNOLOGY

COURSE CODE: LC - 0851

YEAR 2 - SEMESTER I

SOFTWARE PROCESS MODELING - BDI4074

Faculty	Department / Section/Division
Humanities and Education	Education Department

INSTRUCTIONS TO CANDIDATES	Date of the examination: 2022.10.25
Candidates could be disqualified if you violate examination rules.	Duration of the examination = 1 1/2 hours
Candidates are not allowed to communicate with and disturb fellow candidates during the examination.	Total Marks = 20 Marks

INDEX NUMBER:

For Office use Only

Question No:	1	2	3	4	5	6	7	8	9	10	Total Marks	%	Signature
For Scrutinizer's Use Only (marks)													
For Moderator's Use Only (marks)													

- This paper consists of twenty (20) MCQ questions in six (06) pages.
- Read the question and underline the correct answer/answers.

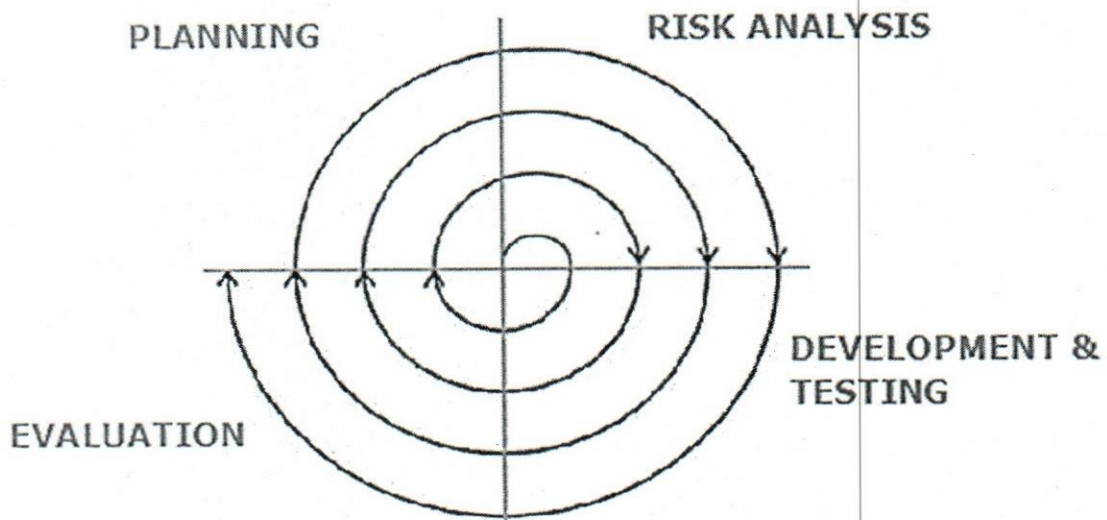
01. Select the correct components that use to draw the use-case diagram.

- System, Border, Arrow, Swimlanes
- System, Actor, Usecase, Relationship
- Border, Name, Lane, Arrows
- System, Actor, Relationship, Include Link

02. Select the incorrect answer about 'Requirement Engineering'.

- It is a process of gathering and defining service provided by the system.
- It focuses on what does the customer want.
- It is important to record requirements in a disorganized manner
- It is focuses on how to do testing

03. Select the correct answer.
- High-level designing is focus on the architecture of the system
  - High-level designing focus on user interfaces
  - Low-level designing is focus on the architecture of the system
  - Low-level signifies the overall system design.
04. What are the activities consisting of Requirement Engineering Process? Select two.
- Feasibility Study
  - Elicitation
  - Specification
  - Designing
05. Select the incorrect answer about 'Requirement Gathering (Requirement Discovery)'.
- It can be done using open interviewing
  - It can be done by observing and analyzing how people actually work
  - It can be done using open interviewing
  - All above are incorrect
06. Select a functional requirement in a 'School Management System'.
- Students can be able to download teaching materials through the system.
  - System should be a secure one.
  - System should recover within one minute when there is a system-down.
  - System Should be a user-friendly system.
07. Following figure shows a SDLC model. What is the name of the model?



- Spiral Model
- Iterative Model
- Prototype Model
- Incremental Model

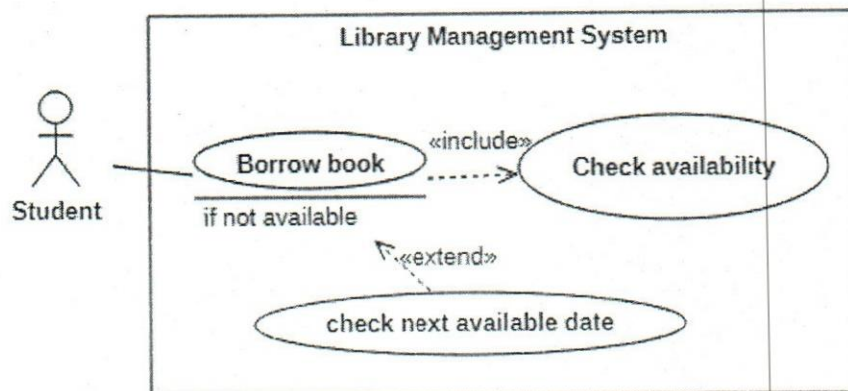


Question 08 - 09 are based on following scenario. Read the scenario and answer to given questions.

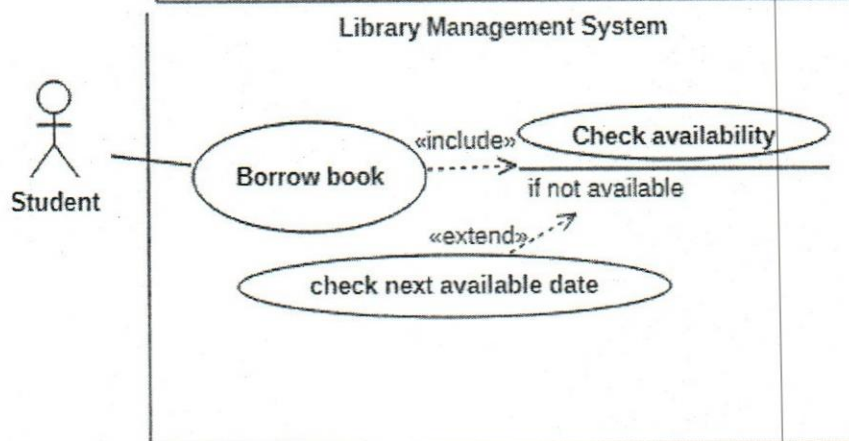
Library management system allows the librarian to maintain library resources in a more operative manner. The system provides students to borrow books if the book is available in library. If the book is not available, student can check next available date. Student can return book through the system, and they should pay fine if the return date overdue. Once they make fine, system generate a receipt.

08. Select the answer which shows extension correctly

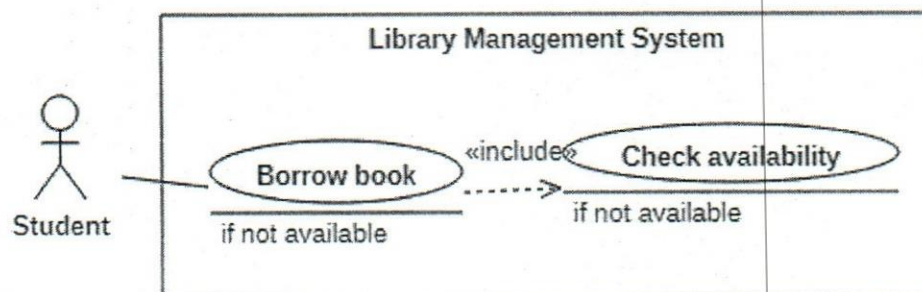
a)



b)



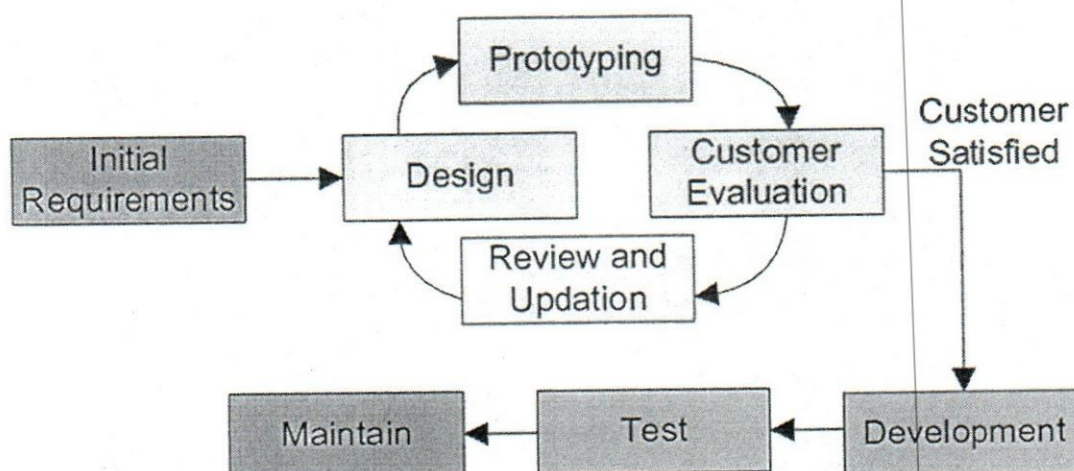
c)



d) All diagrams are correct.

09. Select the correct answer about a 'Software'
- Customize software is produced for open market.
  - Genetic software is produced for the open market. These are produced by a development organization and sold on the open market. Anyone can buy it.
  - Photoshop is an example for customized software
  - Library Management System is an example for genetic software
10. Following are the phases in a 'Software Development Life Cycle'. Select the incorrect answer.
- Planning
  - Designing
  - Implementation
  - Discussions
11. Select the correct phases in 'Waterfall model'.
- Planning, Designing, Risk analysis, Implementation.
  - Feasibility Study, Requirement Analysis, Designing, Risk Analysis
  - Feasibility Study, Requirement Gathering and Analysis, Designing, Implementation
  - Feasibility Study, Risk Analysis, Designing, Implementation
12. Choose the correct user story card for 'Online shopping center'
- User can select items which are available in the system
  - System should be user friendly. So that users can use the system without any doubt.
  - User wants to pay for the selected items through the system.
  - As a user, I want to pay for the selected items through the system.
13. What is incorrect about SRS.
- SRS means Software Requirement Document.
  - This is the official statement of what is required of the system developers.
  - Introduction, Overall Description and Requirements are included in the SRS
  - SRS will say WHAT the system should do rather than HOW it should do it.
14. Which one is not a Requirement Validation Technique?
- Requirements reviews
  - Prototyping
  - Test-case generation
  - Development
15. Following figure shows a SDLC model. What is the name of the model?





- a. Spiral Model
- b. Iterative Model
- c. Prototype Model
- d. Incremental Model

16. Which one is not an advantage of 'Requirement Management'?

- a. Can easily control complex projects
- b. Improve software quality
- c. Reduced project costs and delays
- d. Easy to do the feasibility study

17. When can you use 'Spiral Model'? Select the incorrect answer.

- a. For medium to high-risk projects
- b. For short term projects
- c. When new technology to be used
- d. For complex, constantly changing and continuous requirements

Question 18-20 based on the given scenario. Select the correct SLDC model according to the given scenario.

18. A large organization requires a system which connected with several branches. The organization requires all initial versions of the system to be launched at a particular day. The system can be completed gradually linking all other branches.

- a. Incremental model
- b. Iterative model
- c. Prototype model
- d. Waterfall model

19. An online shopping system for clothing shop
- Incremental model
  - Iterative model
  - Prototype model
  - Waterfall model
20. An Online game upgrade and release a new version of that game.
- incremental model
  - Iterative model
  - Prototype model
  - Waterfall model

-----END OF THE QUESTION PAPER-----



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00012



MID SEMESTER EXAMINATION QUESTION PAPER

CODE - QP

Approved for Quality Management System

EDUCATION & TRAINING COURSE: B.ED (HONOURS) IN INFORMATION TECHNOLOGY

COURSE CODE: LC - 0851

YEAR 2 - SEMESTER I

COMPUTER GRAPHICS AND MULTIMEDIA - BDI4064

Faculty	Department / Section/Division
Humanities and Education	Education Department

INSTRUCTIONS TO CANDIDATES	Date of the examination: 2021.12.16
Candidates could be disqualified if you violate examination rules.	Duration of the examination = 1 1/2 hours
Candidates are not allowed to communicate with and disturb fellow candidates during the examination.	Total Marks = 100 Marks

**Answer Task 1 & 2**

**Software Requirement**

In order to complete Task 1 & 2, you will need the following free/open source softwares.

1. Audacity
2. VideoPad by NCH Software

**Footage provided (LMS - Supporting Footage Files Folder)**

You must use the following audio footages uploaded on LMS.

- Kite-Tastrophy.mp3 by Disney Junior.
- Boy with no kite.mp3 by Martin Buff.
- Chali Re Meri Patang.mp3 by jingletoons - youtube

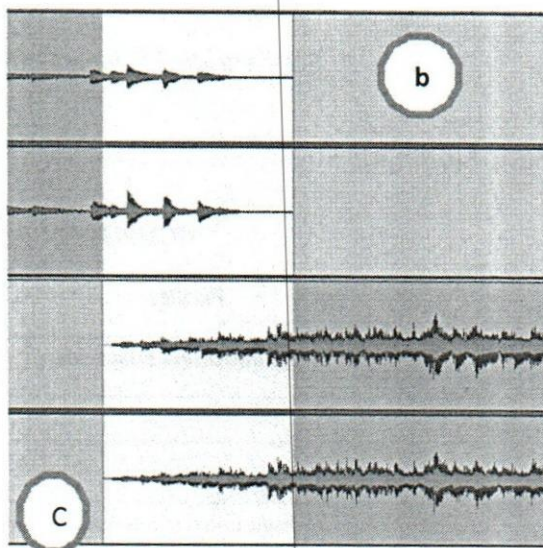
### Task Breakdown

All projects and export files must be saved in a separate folder. Name the folder with the following syntax. <Your Reg/IndexNo>\_CGM\_Assessment1

### Task 1– Create a background music clip using Audacity. (60 marks)

1. Create a New Stereo File in Audacity. Copy clips from the following sound footages provided

- (a) 'Kite-Tastrophy.mp3' audio file. Take the sound starting from 0:00:27 to 0:00:32.
- (b) 'Boy with no kite.mp3' audio file. Take the sound starting from 0:00:17 to 0:00:32.
- (c) 'Chali Re Meri Patang.mp3' audio file. Take the sound starting from 0:00:00 to 0:00:19.



2. Place the sound clip (b) exactly after the clip (a) on the same Track
3. Fade out the noise from 00:00:04:800 to 00:00:05:100
4. Add a new Track. Place the sound clip (c) parallel to the clip (b) to be mixed as shown in the figure to the right.
5. Apply fade out effect to the last 4 seconds of the clip (b) and fade in effect to the first 4 seconds of the clip (c).
6. Fade out the ending of clip (c).
7. Save the project as CGM\_audio.aup and export into MP3 with the same name.

### Task 2 – Create a video file using a Video Editor. (40 marks)

1. Using VideoPad create a new project.
2. Import the edited mp3 audio file to a new audio track on the timeline.
3. Create following text titles and place them on top of the 3 parts of the songs in your mp3 track
  - a. "Kites Festival"
  - b. "Wind Blowing "
  - c. "The kite is flying"



4. Add suitable text styles
5. Do proper placements and adjustments on the timeline, so that the above titles and each part of the sound file are properly synchronized. If the text length is too short, extend the title clip on the timeline to fill the whole length of background music parts.
6. Search on the internet for free art. Add a suitable picture of a kite flying as the background of the titles.
7. Save the project as CGM\_Video and export the final MP4 video file with the same name.

#### **Uploading Instruction – Compress your work folder and upload for marking**

By now you must be having both project files for each software i.e. Audacity project, final edited MP3 file, video editor project file and final MP4 file in a single folder.  
(4 files).

Compress this folder into a .zip file with the file name in the given syntax and upload to LMS assignment. Note that the Maximum file size of zip file is 50 MB on LMS

Your Reg/IndexNo>\_CGM\_Assessment1.zip



END SEMESTER EXAMINATION QUESTION PAPER

CODE - QP

Approved for Quality Management System

EDUCATION & TRAINING COURSE: BACHELOR OF EDUCATION (HONOURS) IN INFORMATION TECHNOLOGY

COURSE CODE: LC - 0851

YEAR II - SEMESTER I

MEASUREMENT & EVALUATION IN EDUCATION - BDP4093

Faculty	Department / Section/Division
Humanities and Education	Education

INSTRUCTIONS TO CANDIDATES	Date of the examination: 2022.02.09
Candidates could be disqualified if you violate examination rules.	Duration of the examination = 03 hours
Candidates are not allowed to communicate with and disturb fellow candidates during the examination.	Total Marks = 100 marks

Instructions: Answer five (05) questions only. You are allowed to use calculators. Graph papers are provided.

**QUESTION 1**

01. i). Distinguish the following assessment concepts.

**Measurement, Assessment and Evaluation**

(06 Marks)

ii). Discuss the advantages of **Criterion-referenced** and **Norm-referenced tests** to the teacher and students separately with examples.

(14 Marks)

**QUESTION 2**

02. i). Describe the significance of **Informal assessments** to the students in the teaching-learning process.

(08 Marks)

ii). "Formal Assessments support the formulation of educational policy decisions in Sri Lanka." Comment on the statement with reference to the present assessment practices of the Sri Lankan formal education system (You could refer to the formal school system Sri Lanka).

(12 Marks)



## QUESTION 3

03. How does the **Formative Assessment** differ from the **Summative Assessment**? Discuss your opinions in this regard including advantages and disadvantages of both assessment modes with examples.

(20 Marks)

## QUESTION 4

04. Select three of the assessment principles introduced by American Association of Higher Education (AAHE). Explain how the selected assessment principles guide assessors/test developers in preparation of student assessments in the schools.

(20 Marks)

## QUESTION 5

05. i). What is **Table of Specification (TOS)**?

(06 Marks)

ii). Develop a Table of specification for a year-end test in your subject. (Note: Suppose that you covered 10 topics/units, and the number of hours allocated for the content is 100. You may decide topic wise time allocation. **Paper 1 has 40 selection type test items and Paper 2 has 08 essay type questions.**

(14 Marks)

## QUESTION 6

06. i). Discuss the theoretical background of having two types of test items (Selection types and Supply types) in a theory examination.

(10 Marks)

ii). Mention minimum three (03) standards to be observed in preparation of matching type test items. Develop a matching type test item which includes five items from your subject area.

(10 Marks)

## QUESTION 7

07. i). What is **Test validity**? Explain.

(08 Marks)

ii). Describe the following types of test reliabilities and discuss the significance of them.

- **Inter-rater Reliability**
- **Intra-rater Reliability**
- **Equivalency Reliability**

(12 Marks)

## QUESTION 8

08. i). Marks of thirty-five (35) students of English Literature are given below.

52,36,78,21,98,74,47,69,91,43,57,59,29,51,68,71,27,64

43,53,61,97,58,65,40,67,84,39,46,14,19,47,81,36,56

- Find the **Mode** of the students' marks. (03 Marks)
- Find the **Median** of the students' marks. (03 Marks)
- Calculate the **Range** of the students' marks. (03 Marks)
- Calculate the **Mean** of the students' marks (03 Marks)

ii). Marks of sixty (60) students of Social Studies are given below.

Class Intervals	Frequency ( $f$ )
11 - 20	06
21 - 30	09
31 - 40	10
41 - 50	08
51 - 60	10
61 - 70	04
71 - 80	06
81 - 90	03
91 - 100	04

- Draw a **Frequency Histogram** and a **Frequency Polygon** for above examination marks. (08 Marks)

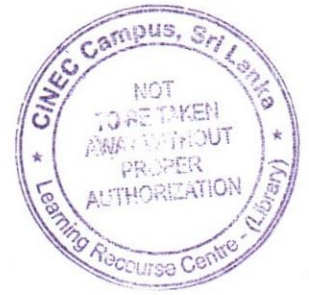
Use the following formulas for the calculations.

$$\text{Variance} = \frac{\sum (x - \mu)^2}{n} \quad \text{Standard Deviation for ungrouped data} \quad \sigma = \sqrt{\frac{\sum (x - \mu)^2}{n}}$$

$$\text{Mean} = \bar{X} = A + C \frac{\sum f d}{N}$$

-----END OF THE QUESTION PAPER-----





END SEMESTER EXAMINATION QUESTION PAPER

CODE - QP

Approved for Quality Management System

EDUCATION & TRAINING COURSE: B.ED (HONOURS) IN INFORMATION TECHNOLOGY

COURSE CODE: LC - 0851

YEAR II - SEMESTER I

SOFTWARE PROCESS MODELING - BDI4074

Faculty	Department / Section/Division
Humanities and Education	Education

INSTRUCTIONS TO CANDIDATES	Date of the examination: 2022.02.11
Candidates could be disqualified if you violate examination rules.	Duration of the examination = 03 hours
Candidates are not allowed to communicate with and disturb fellow candidates during the examination.	Total Marks = 100 marks

**This paper consists of eight (08) questions in four (04) pages.  
Answer five (05) questions including the compulsory question.**

**Question 01 (Compulsory)**

“Software Development Life Cycle (SDLC) is a process used by the software industry to produce a high-quality software that meets or exceeds customer expectations, reaches completion within times and cost estimates”

- (i) Name four (04) Software Development Life Cycle models. (04 marks)
- (ii) Name three (03) advantages and three (03) disadvantages in Waterfall Model. (06 marks)
- (iii) Draw the representation of the ‘Iterative’ model. (10 marks)

(Total marks =20)

**Question 02**

Assume that you need to implement a Library Management System for your school. Answer to following questions which are based on your implementation.

- (i) Write five (05) functional requirements and three (03) non-functional requirements of the system. (08 marks)
- (ii) Write five (05) user-story cards which describe the functionality of the system. Provide the answer according to functional requirements you wrote in part (i). (12 marks)

(Total marks =20)

**Question 03**

- (i) What is software testing? Briefly explain. (04 marks)
- (ii) Briefly describe 'White-box testing' and 'Black-box testing'. (04 marks)
- (iii) Devise a test plan with three (03) test cases for the given scenario. (12 marks)  
"A simple calculator which allows to entering two numbers with an operator. The program should ask to enter a number first, and then enter the operator and finally the second number. According to the operator, it will calculate the value"

(Total marks =20)

**Question 04**

- (i) What is 'Agile Methodology'? Write the definition. (05 marks)
- (ii) Write five (05) characteristics of agile methodology. (05 marks)
- (iii) Write five (05) benefits of using agile methodology. (To customer, vendor or development team) (05 marks)
- (iv) Write your opinion of using agile methodology for the implementations. (05 marks)

(Total marks =20)



**Question 05**

Draw a use case Diagram to the given description.

(20 marks)

'Read.lk' is an online library. If anyone wants to be a member of this library, that new person should register to the library. Once the new person registers, they will become a member of the library. Library members should login to the system by providing a username and password to use the books in the library. If the user credentials are incorrect, the member can see an error message. Members can read books, search books through the system. Also, when they search for books, if the book is not available, they can request the book through the system. There is a librarian for this online library. The Librarian can view members and check requested books. But before these activities, the librarian also login to the system by providing a username and password. If the user credentials are incorrect, the librarian can see an error message.'

(Total marks =20)

**Question 06**

Write the usecase scenario for the 'search books' function. (Even the description is same as Question 05, it is not compulsory to do Question 05 to do Question 06.)

(20 marks)

'Read.lk' is an online library. If anyone wants to be a member of this library, that new person should register to the library. Once the new person registers, they will become a member of the library. Library members should login to the system by providing a username and password to use the books in the library. If the user credentials are incorrect, the member can see an error message. Members can read books, search books through the system. Also, when they search for books, if the book is not available, they can request the book through the system. There is a librarian for this online library. Librarian can view members and check requested books. But before these activities, the librarian also login to the system by providing username and password. If the user credentials are incorrect, the librarian can see an error message.'

(Total marks =20)

**Question 07**

Draw the activity diagram with swim lanes for the given description.

(20 marks)

The Activity starts when the admin registers all users to the system. Then users can access the system by login into the system.

The principal can check whether all teachers and students are registered. If not send user details to the admin and then the admin will register that user to the system.

After that, teachers can enter teaching materials to the system. After entering teaching materials, teachers allow students to download the materials from the system. Meanwhile, teachers can upload test papers to the system and allow students to upload the answers to the system.

Then teachers can mark the answers and publish the results through the system. Students, teachers and principle can view the results at the same time.

(Total marks =20)

### Question 08

Write the most suitable Software Development Model for the following scenarios.

- (i) A simple inventory management system with well-known functions. (04 marks)
- (ii) A banking system with many user accounts. The project has a few risks related to the requirements definition. These risks need to be reduced. (04 marks)
- (iii) Creating a robot with so many functions. So that, the project team decided to launch the robot with initial functions and while customers complete gradually linking other functions. (04 marks)
- (iv) Creating a risky project and the development team does not have a clear idea about customer requirements. So, team members first create the prototype and if the customer agree with that then create the actual product. (04 marks)
- (v) A computer game created for a company. While players are playing the game, they can give feedback about the game. According to the feedbacks development team can do the implementations and release the second version of the same game. (04 marks)

(Total marks =20)

-----END OF THE QUESTION PAPER-----



*Library*



END SEMESTER EXAMINATION QUESTION PAPER

Code - QP

Approved for Quality Management System

EDUCATION & TRAINING COURSE: B.ED (HONOURS) IN INFORMATION TECHNOLOGY

COURSE CODE: LC - 0851

YEAR II - SEMESTER I

COMPUTER GRAPHICS & MULTIMEDIA - BDI4064

Faculty	Department / Section/Division
Humanities and Education	Education

INSTRUCTIONS TO CANDIDATES	Date of the examination: 2022.02.10
Candidates could be disqualified if you violate examination rules.	Duration of the examination = 03 hours
Candidates are not allowed to communicate with and disturb fellow candidates during the examination.	Total Marks = 100 marks

**Answer five questions only**

**Question 1**

- (i) List the components of Multimedia. (6 marks)
- (ii) Explain briefly why Television channel is more effective than Newspaper for communication with large audience. (8 marks)
- (iii) List similarities and differences between Animation and Video (6 marks)

(Total marks =20)

**Question 2**

- (i) Briefly explain how modern display monitors generate necessary colors based on instructions given by a computer System. Use illustrations if necessary (4 marks)
- (ii) You purchased a smart phone for your mother's Birthday. The phone has a 13MP rear Camera having a 4GB internal Storage:
  - a. Your mother is planning a trip tomorrow and phone had used 1.5GB of storage already. Explain approximate number of photos (JPEG) she can store during the trip. (8 marks)

- b. Brief the term 'lossy compression' used in JPEG (4 marks)  
 (iii) List advantages of Vector Graphics concept compared to Raster. (4 marks)

(Total marks =20)

### Question 3

- (i) Briefly describe the term 'Tweening' and 2 other terms related to it (6 marks)  
 (ii) Briefly describe following terms:  
 a. Frame Rate  
 b. Frame Size  
 c. Motion Tweening. (6 marks)  
 (iii) Briefly explain the relationship between Speed and Duration of an Animation (8 marks)

(Total marks =20)

### Question 4

- (i) Find the answer of following transformation.

$$\begin{array}{|c|c|c|} \hline 1 & 2 & 3 \\ \hline 4 & 5 & 6 \\ \hline \end{array} \times \begin{array}{|c|} \hline 7 \\ \hline 8 \\ \hline 9 \\ \hline \end{array} = \begin{array}{|c|} \hline \\ \hline \\ \hline \end{array}$$

- (ii) Describe an example each for Analog and Digital Sounds (4 marks)  
 (iii) Describe following terms related to audio:  
 a. Stereo / Mono  
 b. Sampling Rate. (6 marks)  
 (iv) Write brief description on how to improve Analog to Digital conversion of Audio (5 marks)  
 (v) List 3 professional and popular Audio Editing Software Tools (2 marks)

(Total marks =20)

### Question 5

- (i) Digital television technology is now approaching Sri Lanka. Describe the key differences between DVB and PAL (8 marks)  
 (ii) Briefly describe following Terms:  
 (a) CCD  
 (b) OLED  
 (c) Aspect Ratio

(6 marks)



- (iii) Briefly explain Chroma Key effect and its main application (4 marks)  
(iv) Briefly describe the purpose of 'Sub Titles' on Video (2 marks)

(Total marks =20)

### Question 6

- (i) Explain the purpose of multiple viewports when using 3 Dimensional modelling tools. List 3 popular views used (7 marks)  
(ii) When you place lights in a 3D scene, explain the most important result effect generated by the 3D Software Tool. (4 marks)  
(iii) Briefly explain the Purpose of 'Rendering' in 3D Modeling (3 marks)  
(iv) Describe the most challenging task when Rendering a 3D animated scene (2 marks)  
(v) Brief the importance of a Pointing tool like Mouse when modelling and animating 3D scenes (4 marks)

(Total marks =20)

### Question 7

- (i) Describe the term 'Authoring' in Multimedia. (3 marks)  
(ii) Differentiate 'JavaScript' and 'HTML 5' (6 marks)  
(iii) Describe 2 advantages of HTML5 (4 marks)  
(iv) Briefly explain the term 'E-learning' (3 marks)  
(v) Describe the term 'Storyboard'. (4 marks)

(Total marks =20)

-----END OF THE QUESTION PAPER-----