

**Faculty of Health Sciences****Bachelor of Science Honours in Medical & Health Product Management****MHPM 3263 – Drug Release and Novel Drug Delivery Systems****Batch - 02****3rd year 2nd semester****Mid Semester SEQ Examination****Date: 7th May 2026****Time: 09.00 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.

Question 01**(100 marks)**

- 1.1 Enumerate any **four (04)** physical activation modulated drug delivery systems. (20 marks)
- 1.2 State the key elements based on which *in vitro* - *in vivo* correlation data will be considered meaningful or relevant. (20 marks)
- 1.3 Discuss repeat action dosage form using a suitable plot diagram. (25 marks)
- 1.4 Relate the impact of elimination half-life of a drug molecule on its suitability as a candidate for controlled drug delivery. (35 marks)

Question 02**(100 marks)**

- 2.1 State **five (5)** controlled oral drug delivery systems. (20 marks)
- 2.2 List down the advantages and disadvantages of controlled oral drug delivery systems. (25 marks)
- 2.3 Write a short note on “pH dependent systems” used in controlled oral drug delivery. (25 marks)
- 2.4 Relate on “altered density systems” with suitable illustrations. (30 marks)
