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**CEYLON MEDICAL COLLEGE COUNCIL
EXAMINATION FOR CERTIFICATE OF EFFICIENCY AS PHARMACIST
AUGUST 2025**

Part 2 – Structured Essay Questions (SEQ)

Date 09.08.2025

Time: 9.00 a.m. – 12.00 noon

ANSWER ALL FIVE (5) QUESTIONS WITHIN THE SPACE PROVIDED

Write your index number in each and every page

Duration is 3 hours for both Part 1, the Multiple Choice Question (MCQ) Paper, and Part 2, the Structured Essay Question (SEQ) Paper. (Spend 150 minutes for the MCQ Paper and 30 minutes for the SEQ Paper)

PART 2

Question 01

1.1 Briefly describe the unit process 'drying'. (3 marks)

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1.2 State five (05) reasons for the importance of drying in pharmaceutical manufacturing. (5 marks)

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

1.3 State and outline the three (03) main steps in the freeze drying (lyophilization) process. (6 marks)

- 1.
- 2.
- 3.

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1.4 Compare conventional drying methods with freeze-drying regarding time required, cost, suitability for heat-sensitive drugs, reconstitution and temperature used. (6 marks)

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Question 02

2.1 Briefly describe polymeric systems in drug delivery (5 marks)

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2.2 List five (05) ideal properties of polymers used in drug delivery (5 marks)

1.
2.
3.
4.
5.

2.3 State five (05) advantages of using polymers in controlled drug delivery. (5 marks)

1.
2.
3.
4.
5.

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2.4 State two (02) examples of drug delivery systems based on biodegradable polymers. (5 marks)

1.
2.

Question 03

Benzylpenicillin (Penicillin G) injection is available in a strength of 1 million units per mL. A patient requires a dose of 25,000 units per kilogram of body weight. How many milliliters should be administered to a patient weighing 64 kg? Show your calculations. (20 marks)

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Question 04

4.1 State four (04) types of information which can typically be found in a product information leaflet (PIL) for a medicine. (8 marks)

1.
2.
3.
4.

4.2 Briefly explain the importance of maintaining proper storage temperature of pharmaceuticals. (6 marks)

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4.3 State the recommended storage temperatures/conditions of following. (6 marks)

a) Insulin

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b) Amoxicillin suspension before reconstitution

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Question 05

5.1 Which authority is responsible for maintaining the Register of Pharmacists in Sri Lanka? (5 marks)

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5.2. State two (02) suitable qualifications accepted for registration of pharmacists in Sri Lanka. (6 marks)

1.

2.

5.3 Briefly explain three (03) conditions under which a pharmacist may be removed from the registry. (9 marks)

1.

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2.

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3.

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