



**UNIVERSITY OF JAFFNA, SRI LANKA**  
**BACHELOR OF PHARMACY**  
**FIRST YEAR SECOND SEMESTER EXAMINATION — JANUARY 2016**  
**PHASE 1284 PHARMACEUTICS I - PAPER II**

Date: 11.02.2016

Time: 2 Hours

**ANSWER ALL EIGHT QUESTIONS.**

- 1 1.1 Name five external liquid dosage forms. (20 Marks)
- 1.2 List the vehicles used to prepare pharmaceutical formulations. (40 Marks)
- 1.3 Compare and contrast syrup and elixir. (40 Marks)
  
- 2 2.1 Classify the suspension based on size of dispersed particles. (15 Marks)
- 2.2 Differentiate flocculated suspension and deflocculated suspension. (40 Marks)
- 2.3 Explain the pharmaceutical applications of suspension with examples. (45 Marks)
  
- 3 3.1 Define the term 'semisolid dosage form'. (10 Marks)
- 3.2 Enumerate the ideal properties of semisolid preparations. (40 Marks)
- 3.3 Describe the factors influence the selection of semisolid base for topical preparation. (50 Marks)
  
- 4 4.1 List the advantages of rectal route drug administration. (20 Marks)
- 4.2 Describe the advantages of synthetic triglycerides over theobroma oil as suppository base. (35 Marks)
- 4.3 8 plain suppositories were prepared with base 'A' and the total weight of 8 plain suppositories was 8 g. Then 8 medicated suppositories containing 20% drug 'X' was prepared using base 'A'. Total weight of 8 medicated suppositories was found to be 10 g. Calculate the displacement value of the drug 'X'. (45 Marks)
  
- 5 5.1 Name the different types of oxygen supply systems for medical use. (15 Marks)
- 5.2 Write an account on supplemental oxygen. (25 Marks)
- 5.3 Describe the safety rules for handling medicinal gas cylinders. (60 Marks)
  
- 6 6.1 Name the types of oral tablets. (20 Marks)
- 6.2 List the advantages of soft gelatin capsules. (30 Marks)
- 6.3 Briefly explain the various methods used for mixing of powder. (50 Marks)
  
- 7 7.1 Define 'Allergenic Extracts'. (10 Marks)
- 7.2 List the allergenic extracts with examples. (40 Marks)
- 7.3 Describe the different methods used for the preparation of crude extracts. (50 Marks)
  
- 8 Write short notes on following.
- 8.1 Emulsifying agents. (35 Marks)
- 8.2 Pharmaceutical gel. (30 Marks)
- 8.3 British pharmacopeia. (35 Marks)

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