



**UNIVERSITY OF JAFFNA, SRI LANKA**  
**BACHELOR OF PHARMACY**  
**FIRST YEAR SECOND SEMESTER EXAMINATION – JANUARY 2016**  
**PHACE 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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