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UNIVERSITY OF JAFFNA  
BACHELOR OF PHARMACY  
FOURTH YEAR SECOND SEMESTER EXAMINATION – AUGUST 2016  
PHAAP 4201 ADVANCED PHARMACEUTICS

Date: 03.08.2016.

Time: 02 Hours

Answer all six questions.

1. Briefly describe the following factors that affect the oral absorption of drugs.
  - 1.1 polymorphism of drugs (30 marks)
  - 1.2 influence of excipients (70 marks)
  
2. Explain the various
  - 2.1 techniques used to enhance the oral bioavailability of drugs. (60 marks)
  - 2.2 factors that affect the plasma protein-drug binding. (40 marks)
  
3.
  - 3.1 Briefly explain how
    - 3.1.1 hair conditioners work? (20 marks)
    - 3.1.2 different hair dyes work? (20 marks)
  - 3.2 Briefly describe the formulation of face powder. (60 marks)
  
4.
  - 4.1
    - 4.1.1 What is preformulation? (10 marks)
    - 4.1.2 List the different methods used to study polymorphs. (20 marks)
  - 4.2 Explain the various problems encountered in the storage of drugs in plastic containers. (40 marks)
  - 4.3 Write the importance of stress testing of pharmaceuticals. (30 marks)
  
5.
  - 5.1 Write an account on hydrolytic decomposition of drugs with examples. (50 marks)
  - 5.2 Describe the different methods used to stabilize the drugs against chemical degradation. (50 marks)
  
6. Write a note on
  - 6.1 pilot plant scale up techniques. (60 marks)
  - 6.2 types of validation methods. (40 marks)

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