

MANIPAL UNIVERSITY**M. PHARM. PART-I DEGREE EXAMINATION – MAY/JUNE 2009****SUBJECT: INDUSTRIAL PHARMACY (PCE 601)****SPECIALIZATION: PHARMACEUTICS**

Thursday, May 28, 2009

Time: 10.00-13.00 Hrs.

Max. Marks: 100

Answer ALL questions.

- 1A. Explain the steps involved in the pilot plant scale up of tablet formulations.
- 1B. Explain the preformulation aspects of liquid orals.
- (10+10 = 20 marks)
- 2A. Discuss the methods of measurement of forces within the powder mass undergoing compression.
- 2B. Give the importance of optimization in pharmaceutical formulations. What are the optimization parameters?
- (10+10 = 20 marks)
- 3A. Give the salient features of GMP.
- 3B. Explain various aspects of Total Quality Management.
- (10+10 = 20 marks)
- 4A. Define COD and BOD. Explain the Methodology to reduce BOD.
- 4B. Explain the safety measures to be considered against mechanical, electrical and chemical hazards in a pharmaceutical industry.
- (10+10 = 20 marks)
- 5A. Discuss cost controls on pharmaceutical manufacturing.
- 5B. Explain the steps involved in the equipment validation.
- (10+10 = 20 marks)



MANIPAL UNIVERSITY**M. PHARM. PART-I DEGREE EXAMINATION – MAY/JUNE 2009****SUBJECT: COSMETIC TECHNOLOGY (PCE 604)****SPECIALIZATION: PHARMACEUTICS**

Monday, June 01, 2009

Time: 10.00-13.00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

✍ All question carry equal marks.

1A. Write a note on the types of rouges available.

1B. What are the requirements for an ideal preservative? Discuss the factors influencing effectiveness of preservatives.

(10+10 = 20 marks)

2A. Add a detailed note on dentifrices.

2B. Explain different types of toilet soaps and give an example of toilet soap formulation.

(10+10 = 20 marks)

3A. Write about different Hair setting lotions and its application.

3B. Write about cosmeceutical actives used as hair growth enhancers.

(10+10 = 20 marks)

4A. Discuss the general preformulation considerations for a drug molecule.

4B. Write a note on the colours used in cosmetics.

(10+10 = 20 marks)

5A. How the colour additives are categorized? And what are their basic requirements?

5B. Enlist the packaging materials used for cosmetic product packaging. Explain in detail about any two.

(10+10 = 20 marks)

