

Question Paper

Exam Date & Time: 07-May-2018 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

MANIPAL COLLEGE OF PHARMACEUTICAL SCIENCES
END SEMESTER THEORY EXAMINATIONS - MAY 2018
PROGRAM: MPHARM SEMESTER 2 (INDUSTRIAL PHARMACY)

DATE: 07/05/2018

TIME: 02:00 PM - 5:00 PM

Pharmaceutical Production Technology [PCE-MIP203T]

Marks: 50

Duration: 180 mins.

a

Answer all the questions.

Answer the following (5 marks x 8 = 40 marks)

- 1) Explain the principle of microfluidizer technology with the help of diagram. (5)
- 2) Explain any two microencapsulation techniques. (5)
- 3) Explain the working of fluidized bed spray granulator. (5)
- 4) Explain the principle involved in super critical fluid processor. (5)
- 5) Discuss the different types of glass used in pharmaceutical industries. (5)
- 6) Define hard gelatin capsule. Write the steps involved in manufacturing of empty capsules. (5)
- 7) Discuss environmental control zone grouping in parenteral production. (5)
- 8) Define and enlist different dust collectors. Explain the working principle of single cyclone separator. (5)

b

Answer all the questions.

Answer the following with specific answers (2 marks x 5 = 10 marks)

- 9) Write any four applications of lyophilisation process. (2)
 - A)
 - B) What are the causes of blistering in tablets? (2)

- C) Enlist any two advantages and disadvantages of spray drying process. (2)
- D) Give the difficulties associated with filling of capsules with pellets. (2)
- E) Why antiscalant and coagulant are used in water treatment? (2)

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