

Ref. No. : Ex/PG/PHAR/T/128D/2017

Name of the Examinations: M. PHARMACY FIRST YEAR SECOND SEMESTER - 2017

Subject : INDUSTRIAL PHARMACY - III Time : 3 hours Full Marks : 100

Answer any 5 questions from 3 groups and answer at least one question from each group.

Group A

Q.1 What is the role of packaging in Pharmaceutical industries? What kind of packaging materials must be chosen in Pharmaceutical industries? Why is a 'label' important and how is it specified by various information? Give examples of some containers for pharmaceuticals to contain and protect various dosage forms. State few guidelines to be followed in packaging system.

**Marks 4x5**

Q.2 What are the objectives of efficient Warehousing operation? Write on warehouse laying design. What are the benefits of warehousing management? What are the costs to be considered in operating a warehouse? What are the activities involved in a warehouse? **Marks 4x5**

Q.3 What are the objectives of Conveying system in Pharmaceutical industry? Discuss the principle, construction, operation, advantages and disadvantages of Belt conveyor. **Marks 5+15**

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Group-B

Answer at least one question from this group

Q.4. What is capacity planning? What are the steps for it? How the capacity plans are generated in an organization? (4+8+8)

Q.5. Define and explain the following:

a) Scale and scope of economy   b) ERP   c) Inventory control management   d) Matrix organization   e) c-GMP recommendation of central warehouse (4x5=20)

Q.6. a) What are the components of QMS in Pharmaceutical industry?

b) How the in-process control, contamination control and laboratory controls are organized in Pharmaceutical industry? (5+5+5+5)

M. PHARMACY FIRST YEAR SECOND SEMESTER -2017

INDUSTRIAL PHARMACY-III

TIME: 3 h

FULL MARKS: 100

ANSWER ANY FIVE QUESTIONS TAKING ATLEAST ONE FROM EACH GROUP

GROUP-C

7.

- a. Write short note on ferrous-metals and non-ferrous-metals.
- b. What are the factors effecting corrosion? Write a short note on the protection of corrosion.
- c. Write a short on metallic and non-metallic coatings. What are the different types of organic coatings being available.
- d. Write a note on Annealing techniques, Quenching and Tempering
- e. What are the corrosivity evaluations in hydrocarbon systems.
- f. Write a note on HSLA and stainless steel, Cast Iron. Explain briefly the fabrication of metals and alloys.

[4+4+4+3+1+4=20 marks]

8.

- a. What are the personal requirement for setting up a pilot plant.
- b. Explain briefly the master manufacturing procedures.
- c. What is GMP, explaining the advantages and disadvantages.
- d. Write a note on liquid manufacturing process.
- e. Write the steps of quality assurance in oral aspects.
- f. What is semi-solid dosage form.
- g. What is the role of In-Vitro release.
- h. What are the scopes and limitations of Contract Manufacturing.

[2+2+4+2+2+2+2+4=20 marks]

9.

- a. Explain briefly the chemical hazard, hazardous gases and fire and explosive hazards.
- b. Why Material Safety Data Sheets are prepared.
- c. What are the regulatory guidelines required for the various departments.
- d. Write a short note on sterile product area.
- e. Explain the salient features of "Maharashtra Factories Rules – 1963".

[6+2+3+3+6=20 marks]

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