

S/2016/1943

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**FIRST YEAR PHARMACY**  
**PHARMACEUTICS - I**  
(101)

**Time : Three Hours**

**Maximum Marks : 80**

- Note :** i) Attempt total six questions. Question No.1 is compulsory. From the remaining questions attempt any five.
- ii) Illustrate your answer with neat sketches wherever necessary.

1. Attempt any five

5×2=10

- a) Why drugs are not given in their original pure state?
- b) Define the term "Pharmacopeia."
- c) Mention the different type of materials used in the construction of Aerosole system.
- d) Name the different methods of Extraction.
- e) Define the term comminution.
- f) What does the term "Desiccation mean"?

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P.T.O.

(2)

2. Attempt any two questions.

2×7

- a) Classify briefly dosage forms
- b) How will you prepare 400ml 30% alcohol solution from 60% and 20% solution respectively.
- c) Find the proportion of dextrose needed to produce a solution iso-osmotic with blood plasma.

3. Attempt any two questions.

2×7

- a) Explain the importance of particle size reduction.
- b) Give in detail about various official grades of powders as per I.P.
- c) Discuss various factors affecting rate of filtration based on "Darcy's law".

4. Explain construction working and application any two of the following:

2×7

- a) Clutter milk
- b) Steam distillation
- c) Tray dryer
- d) Leaf filter

5. Attempt any two questions 2×7
- a) Classify type of immunity
  - b) Describe construction, working and application of hot air oven.
  - c) Discuss tests for sterility for parenteral formulations
6. Differentiate any two of the following: 2×7
- a) Dry heat sterilization and moist heat sterilization
  - b) Infusion and decoction
  - c) Soft gelatin capsule and hard gelatin capsule
  - d) Sugar coating and film coating
- <http://www.rgpvonline.com>
7. Write note any two of the following: 2×7
- a) Advantage and disadvantage of aerosole system
  - b) Preparation of diphtheria antitoxin
  - c) Evaluation of capsules
8. a) Define the following terms: 3.5
- i) Capping
  - ii) Enteric coated tablet
  - iii) Additives
  - iv) Drug
  - v) Microencapsulation

(4)

b) Match the column 'A' against column 'B' 3.5

Column 'A'

Column 'B'

i) Tuberculosis

a) Viral disease

ii) Rabies

b) Bacterial disease

iii) Vaccine

c) Treatment of disease

iv) Serum

d) Tablet

v) ~~Malting~~ *moeling*

e) Prevention of disease

c) Fill in the blanks: 3.5

i) The emulsion mean for internal use should be \_\_\_\_\_ type.

ii) 1 dessertspoonful = \_\_\_\_\_ ML

iii) 1 teaspoonful = \_\_\_\_\_ ML

iv) Inorganic powders are sterilized by \_\_\_\_\_ method.

v) Large volume parenteral are stored in \_\_\_\_\_ dose container.

d) State whether True/False: 3.5

i) Transfusion fluid is sterilized by moist heat sterilization.

ii) What variation limit for 80mg tablet is 15% as per L.P.

iii) D.T. time for film coated tablet is 01 hours.

iv) Vanishing cream is o/w type of emulsion base.

v) Friability per limit for tablet as per L.P. is 1.0%.