

F/2016/1943

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FIRST YEAR PHARMACY
PHARMACEUTICS - I
(101)

Time : Three Hours

Maximum Marks : 80

Note : Attempt total *six* questions. Question No.1 is compulsory. From the remaining questions attempt any *five*.

1. a) Fill in the blanks with suitable words (any five).

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i) 1 teaspoonful = _____ ml.

ii) D.T time of uncoated tablet is _____ minutes.

iii) Parenteral preparations should be free from _____.

iv) Ophthalmic formulation must be _____ with lachrymal secretions of eye.

v) Silverson emulsifier is used two mixing of _____ liquid dosage forms.

vi) Very fine powder must be passed through sieve no. _____.

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b) State true/ false : (any five)

- i) 1 dessertspoonful = 8 ml.
- ii) Elixir' is more stable than syrup
- iii) Suspension is monophasic liquid dosage form.
- iv) Sodium chloride is sublime substance.
- v) Autoclave is used for sterilisation of surgical dressing.
- vi) Cyclone separator is used for size separation process.

2. Write down construction, working and application of any two of the following. 14

- i) Ball mill
- ii) Tray dryer
- iii) Filter press

3. Describe construction, working and application of any two of the following. 14

- i) Steam Distillation
- ii) Autoclave
- iii) Soxhlet extraction apparatus

4. Attempt any two of the following : 14

- i) Differentiate between 'drug' and 'additive'.
Classify different type of dosage forms.

- ii) Describe different types of container as for i.p. for packaging of pharmaceutical dosage forms.
- iii) Give the advantage and disadvantage of Aerosol dosage forms.

5. Attempt any two of the following. 14

- ~~i)~~ Prepare 500 ml 1 in 200 potassium permanganate solution from 1 in 40 solution of potassium permanganate.
- ii) What is Darcy's equation. Describe various factors affecting rate of filtration.
- iii) Explain object of mixing. Give the type of mixtures with examples.

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6. Attempt any two of the following: 14

- i) Describe briefly various excipients used in formulation of tablets dosage forms.
- ii) Describe the method of preparation and uses of Cholera vaccine.

☒ iii) Classify immunity with examples.

7. Differentiate any four of the following: 14

- i) Infusion and Decoction
- ii) Percolation and maceration
- iii) Hard Gelatin capsule and soft gelatin capsule

(4)

- iv) Dry heat sterilisation and moist heat sterilisation
- v) Sugar coating and film coating

8. Write note any four of the following:

14

- i) Sublimation
- ii) Pyrogen test
- iii) Friability test
- iv) Fractional distillation
- v) Capsule size and approximate capacity

