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## 1.1 (D)

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2020

D.Pharm. 1<sup>st</sup> Year Examination

PHARMACEUTICS-I

Full Marks – 80

Time – Three hours

The figures in the margin indicate full marks for the questions.

Numbers in the margin indicates full marks.

1. Multiple choice questions (Answer *all* questions): (20 × 1 = 20)
- (i) Which of the following is an internal liquid preparation?
- (a) Liniments (b) Elixir  
(c) Lotions (d) Throat paints
- (ii) Which of the following is used as abrasive agent?
- (a) Sodium carbonate (b) Methyl salicylate  
(c) Both of the above (d) None of the above
- (iii) Insufflations are the medicated dusting powder meant for application into the body cavities with the help of apparatus known as \_\_\_\_\_
- (a) Insufflator (b) Insufflameter  
(c) Metered dose inhaler (d) None of the above
- (iv) The Third edition of Indian Pharmacopoeia was published in:
- (a) 1948 (b) 1985  
(c) 1955 (d) 1950
- (v) Ointments are:
- (a) Semisolid preparation (b) Solid preparation  
(c) Liquid preparation (d) None of the above

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- (vi) Ear drops are generally used for cleaning the ear, \_\_\_\_\_ wax and for treating mild infections
- (a) Hardening (b) Softening  
(c) Both of the above (d) None of the above
- (vii) 1 teaspoonful = \_\_\_\_\_ ml.
- (a) 5 ml (b) 10 ml  
(c) 12 ml (d) 14 ml
- (viii) Glycerin is used to throat paints because of its
- (a) Sweet taste (b) Viscosity  
(c) Both of the above (d) None of the above
- (ix) The dissolution test has been introduced in \_\_\_\_\_ edition of Pharmacopoeia of India
- (a) First (b) Second  
(c) Third (d) None of the above
- (x) Air-tight sealed containers are used for
- (a) Tablets (b) Capsules  
(c) Injectables (d) Liquid preparations
- (xi) Comminution helps to increase the \_\_\_\_\_ drug.
- (a) Surface area (b) Rate of absorption  
(c) Compression (d) All of the above
- (xii) In sieving method, the powder passed through a set of sieves which are arranged
- (a) In descending order (b) In ascending order  
(c) At random (d) One's own choice
- (xiii) Colloidal mill are capable of producing particles \_\_\_\_\_ in size.
- (a) Micron (b) Nanometer  
(c) (a) and (b) (d) All of the above
- (xiv) The rate of filtration is \_\_\_\_\_ proportional to the surface area of the filter media.
- (a) Directly (b) Inversely  
(c) Indirectly (d) All of the above
- (xv) The drug is boiled with water for a stated period usually 10 minutes is known as \_\_\_\_\_
- (a) Infusion (b) Decoction  
(c) Digestion (d) All of the above



(xvi) The transfer of heat in liquid takes place by \_\_\_\_\_ method.

- (a) Convection (b) Conduction  
(c) Radiation (d) All of the above

(xvii) Destructive distillation is also known as \_\_\_\_\_

- (a) Fractional distillation (b) Dry distillation  
(c) Partial distillation (d) All of the above

(xviii) Proper drying process prevents \_\_\_\_\_ of the products.

- (a) Detoriation (b) Sterilation  
(c) (a) and (b) (d) All of the above

(xix) The enteric-coated tablets are disintegrated in the \_\_\_\_\_

- (a) Stomach (b) Intestine  
(c) Mouth (d) All of the above

(xx) Injections are sterilized by \_\_\_\_\_ method

- (a) Moist heat sterilisation (b) Dry heat sterilisation  
(c) Pasteurization (d) All of the above

2. Short answer type question (answer any *eight*). (8 × 5 = 40)

- (a) What is "Monophasic liquid dosage form? Distinguish between syrup and elixir.
- (b) Define "creams". How it differs from ointments? Write a short note on cream.
- (c) Write in detail about the salient features of second edition of Pharmacopoeia of India.
- (d) Explain the different methods of packing of "aerosols". Write the advantages and disadvantages of aerosols.
- (e) Describe the construction and working of a fluid energy mill with the help of a diagram.
- (f) How does a elutriation method helps in the size separation of a powder? Write its advantages and disadvantages.
- (g) What are the equipment is used for mixing of liquids? Write in detail about "planetary mixer".
- (h) Differentiate between filtration, clarification and straining. Describe the various filter media used in pharmacy.



- (i) Describe briefly the "Reverse percolation process" of extraction.
- (j) Define "steam distillation". Write in detail with the help of neat diagram about "steam distillation".
- (k) Discuss the theory construction and working of freeze drying apparatus. Write the different advantages and disadvantages of freeze drying process.

3. Descriptive questions (answer any two) (2 × 10 = 20)

- (a) Define "capping". Discuss in brief the various steps, which are generally done to maintain the quality control of tablets. (2 + 8 = 10)
  - (b) Write shorts notes on: (5 × 2 = 10)
    - (i) Dry heat sterilization
    - (ii) Tyndallisation
    - (iii) Diphtheria antitoxin
    - (iv) Schick test toxin
    - (v) Modern unit dose packaging
  - (c) Write in brief about soft gelatin capsules? Describe the working and construction of a rotary machine with the help of a labeled diagram. (4 + 6 = 10)
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