



**MV-014-1041005**

Seat No. \_\_\_\_\_

**M. P. M. (Sem. I) (CBCS) Examination**

**January - 2018**

**Pharmaceutics - I (BP - 103)**

**Faculty Code : 014**

**Subject Code : 1041005**

Time : **3 Hours**]

[Total Marks : **75**

- Instructions :**
- (1) All the questions are compulsory.
  - (2) Figures to the right indicates marks.
  - (3) Draw neat and clean diagrams as required.

**1** Answer the following questions : **10×2=20**

- a) Define: Elixir, Suspension, Gargles, Posology.
- b) Convert: 2 drachm to gm, 1.5 fl. oz to ml, 1 grain to mg, 1 cochlear magnum to ml.
- c) Differentiate: liniment and lotion
- d) Explain in brief about Indian Pharmacopoeia
- e) Translate Latin into English: S.O.S., Jentaculam, b.i.d., Sumendum
- f) Define proof spirit. What will be the % strength corresponding to 60 O.P. ?
- g) Explain about Displacement value.
- h) Justify the comment: 'Syrup IP is self-preservative'.
- i) Find the concentration of sodium chloride required to make 150 ml of isotonic solution containing 0.70% ephedrine hydrochloride and 0.30% chlorobutol. (F.P. of 1% w/v solution of ephedrine hydrochloride is  $-0.165^{\circ}\text{C}$ , F.P. of 1% w/v solution of chlorbutol is  $-0.138^{\circ}\text{C}$ , F.P. of 1% w/v solution of sodium chloride is  $-0.576^{\circ}\text{C}$ )
- j) Explain about Dusting Powders.

**2** Answer any two out of the following : **2×10=20**

- a) Define Incompatibility and classify them with suitable example. Explain in detail about alkaloid incompatibilities.
- b) Define emulsion. Enlist the types of emulsion. Explain the methods to prepare the same. Write a note on stability of emulsions.
- c) Differentiate various semi-solid dosage forms. Explain various types of ointment bases and their properties.

**3** Answer any seven out of the following : **7×5=35**

- a) Define Pharmacy. Explain in detail about scope of Pharmacy.
- b) Explain in detail about Effervescent granules.
- c) Calculate the amount of 70%, 60%, 40%, and 30% alcohol that should be mixed to get 120 ml of 50 % alcohol.
- d) Define prescription. Explain various parts of prescription.
- e) Define mixture. Explain in detail about diffusive and indiffusive type of mixtures.
- f) Define Powders. Classify them. Discuss about the problems with their remedies occurred while compounding the powders.
- g) Differentiate Flocculated suspension and Deflocculated suspension.
- h) Classify and explain various suppository base.
- i) Discuss in brief the factors which influence the selection of Dose.

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