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2021

B.Pharm. 1<sup>st</sup> Semester (Regular) End-Term Examination

B.Pharm

PHARMACEUTICS - I (Theory)

New Regulation (W.e.f. 2017-18)

Full Marks - 75

Time - Three hours

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

1. Answer *all* the questions : (20 × 1 = 20)
- (i) English meaning of "Omni hora" is
- (a) Every hour (b) Every two hours
- (c) Every four hours (d) Every six hours
- (ii) The Latin term "Mitte tales" means
- (a) As a dose (b) In a manner prescribed
- (c) Send such (d) All of the above
- (iii) The direction to the **patient in a prescription** is given as
- (a) Signatura (b) Subscription
- (c) Superscription (d) Inscription
- (iv) Define the term Unit dosage form.
- (v) The dusting powders should be passed through a \_\_\_\_\_ sieve no to enhance \_\_\_\_\_
- (vi) English meaning of latin term **bis in die**
- (a) Twice a day (b) Thrice in a day
- (c) Once in a day (d) None of the above
- (vii) Corticosteroids are contra-indicated in patients having \_\_\_\_\_.
- (viii) On mixing two eutectic substances a liquid is formed due to \_\_\_\_\_ of mixture \_\_\_\_\_ room temperature.

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- (ix) Dose for child =  $\frac{\text{Age in years}}{\text{Age in years} + 12} \times \text{Adult dose}$
- (a) Young's formula (b) Clark's formula  
(c) Dilling's formula (d) None of the above
- (x) The drugs are more rapidly absorbed from the \_\_\_\_\_ stomach.
- (xi) Dusting Powders are dispensed in \_\_\_\_\_ container.  
(a) Bulk container (b) Shifter top container  
(c) Air tight container (d) All of the above
- (xii) Cachets are also known as \_\_\_\_\_.  
(a) Wafer capsule (b) Disintegrated capsule  
(c) Soft gelatine capsule (d) None of the above
- (xiii) Liniments should not be applied on \_\_\_\_\_ skin.  
(a) Broken skin (b) Dry skin  
(c) Moist skin (d) All of the above
- (xiv) SLS is an example of \_\_\_\_\_ agent.  
(a) Wetting agent (b) Flocculating agent  
(c) Colouring agent (d) Suspending agent
- (xv) Dilution test is the identification test for  
(a) Emulsion (b) Suspension  
(c) Ointment (d) Both (a) and (b)
- (xvi) 1 tablespoonful = \_\_\_\_\_  
(a) 4 ml (b) 15 ml  
(c) 10 ml (d) 20 ml
- (xvii) Hydrous wool fat is a mixture of \_\_\_\_\_ wool fat and \_\_\_\_\_ purified water.  
(a) 70% w/w, 30%w/w (b) 50% w/w, 20% w/w  
(c) 75% w/w, 25%w/w (d) 80% w/w, 20%w/w
- (xviii) Define the term 'displacement value'.
- (xix) \_\_\_\_\_ is commonly used as antiperspirant.  
(a) Aluminium chlorohydrate (b) Aluminium chloride  
(c) Zinc oxide (d) None of the above
- (xx) Wool fat is also known as  
(a) Yellow soft paraffin (b) White soft paraffin.  
(c) Anhydrous lanolin (d) Carbowaxes



2. Answer the following questions. (Any seven) (7 × 5 = 35)

- (a) Write the importance of the modern method of prescribing the drug.
- (b) Define 'incompatibility'. Explain in brief about physical incompatibility.
- (c) Discuss the various factors which affect the dose of a medicine.
- (d) Classify different types of powder. Discuss the bulk powders which are meant for external use.
- (e) Differentiate between flocculated and non flocculated suspension.
- (f) What do you mean by 'cracking of emulsion'? Discuss the various reasons for the cracking of emulsions.
- (g) Define the term 'ointment'. What are desirable properties of an ideal ointment base?
- (h) What do you mean by suppositories? Write the advantages and disadvantages of suppository.
- (i) Prepare 400 ml of a 5% solution and label with a direction for preparing 2 litre quantities of a 1 in 2000 solution.

3. Answer the following questions. (Any two) (2 × 10 = 20)

- (a) Explain the term 'prescription'. What are the various sources of errors while dispensing a prescription? Discuss in brief the various parts of a prescription. (2+3+5)
  - (b) What are mixtures? Classify different types of mixtures. Discuss in brief, the various vehicles and adjuncts used in the formulation of mixtures. (2+3+5)
  - (c) Write short notes on (2 × 5 = 10)
    - (i) Emulsifying agent.
    - (ii) Chemical incompatibility.
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