

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[BPHARM 0921]**

**SEPTEMBER 2021  
(SEPTEMBER 2020 EXAM SESSION)**

**Sub. Code: 2005**

**B.PHARM. DEGREE EXAMINATION  
PCI Regulation 2017 – SEMESTER I  
PAPER III – PHARMACEUTICS - I  
Q.P. Code: 562005**

**Time: Three hours**

**Maximum: 75 Marks**

**I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)**

1. Define Pharmacopoeia. Explain about its significance. Give a brief review on the development of Indian Pharmacopoeia and British Pharmacopoeia.
2. Define Posology. Enumerate the factors affecting posology. How paediatric dose is calculated on the basis of age, bodyweight and body surface area.
3. Define Incompatibility. Describe about various types of incompatibility with examples and provide its remedies.

**II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)**

1. Explain about different parts of Prescription.
2. a. How much ml of 30% dextrose in water and 60% dextrose in water are needed to make 750 ml of 45% dextrose in water?  
b. What % strength corresponds to 40<sup>0</sup> O/P and 60<sup>0</sup> U/P
3. Discuss about Powders used for external use with examples
4. Write about method of preparation of Throat Paint and its application.
5. Differentiate Flocculated and Deflocculated suspension.
6. Explain different methods of preparation of Emulsion.
7. Describe the properties of Ideal suppository base.
8. What are pastes? Give its salient features. Comment on preparation of paste.
9. Classify gels and enlist components used in preparation of gels.

**III. Short answers on: Answer ALL questions. (10 x 2 = 20)**

1. Mention two stability problems associated with Emulsion.
2. Difference between Simple and Compound powder. Give example
3. If the adult dose is 60 mg and the age of child is 6 years what will be the dose for the child according to Dilling's rule.
4. Convert 90% v/v alcohol into its proof strength.
5. Explain Synergistic effect.
6. What is mean by Counter irritant? Give example.
7. Write about Diffusible and Indiffusible solids.
8. Define the term Displacement value.
9. Define emulsion.
10. Mention about types of Ointment bases.

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