

**POST GRADUATE DIPLOMA IN
PHARMACEUTICAL SALES MANAGEMENT
(PGDPSM)**

Term-End Examination

December, 2013

MVE-003 : PHARMACEUTICS

Time : 2 hours

Maximum Marks : 50

Note : Attempt any five questions.

1. (a) Define posology. Discuss the dosage calculation for children according to age. 5
(b) What are the desirable features of a container ? Enlist various types of container ? 5
2. (a) Discuss the advantages and disadvantages of glass containers. 5
(b) Discuss the advantages of tablet or capsule dosage form. 5
3. (a) What are the various types of Biphasic liquid dosage form ? Explain suspensions. 5
(b) Enlist methods of sterilization. Discuss dry heat sterilization in detail. 5
4. (a) What is the use of Buffering agent and antimicrobial preservatives in the formulation of parenteral products ? 6
(b) Discuss the Isotonicity and Ocular bioavailability of eye drops. 4

5. (a) Write down the factors affecting selection of ointment base. 3
(b) Define creams and jellies. 4
(c) Discuss the merits of Aerosols in drug delivery. 3
6. (a) How lipid solubility and complementation affect absorption of drugs ? 6
(b) Define the terms Bioavailability and Biopharmaceutics. 4
7. (a) What are various phases of clinical trial ? Discuss any one phase of clinical trial in detail. 5
(b) Describe the steps involved in the production of monoclonal antibodies. 5
8. (a) What are advantages of functional food ? 4
(b) Define probiotics. What are the causes for disruption of the normal gastro intestinal tract ? What are the consequence of disruption of the normal flora ? 6
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