

POST GRADUATE DIPLOMA IN  
PHARMACEUTICAL SALES MANAGEMENT  
(PGDPSM)

Term-End Examination

June, 2013

MVE-003 : PHARMACEUTICS

Time : 2 hours

Maximum Marks : 50

Note : Attempt *any five* questions. All questions carry equal marks.

1. (a) What are the different rules for calculating the doses for children ? 5
- (b) Discuss various types of glass container used and list down merit or demerits of glass used as material for storage and packaging of pharmaceutical products. 5
2. Answer the following :
  - (a) (i) Differentiate between hard and soft gelatin capsules. 2
  - (ii) Differentiate between Oil in Water Emulsions and Water in Oil Emulsion. 3
  - (b) List down various types of Capsules. Give advantages and disadvantages of tablets. 5

3. (a) Name various methods used for sterilisation of pharmaceuticals. Explain steam sterilisation in detail. 5
- (b) What are added substances used in parenteral products ? Discuss any four in brief. 5
4. Write short note on *any two* of the following : 5x2=10
- (a) Therapeutic uses of Probiotics.
- (b) Monoclonal antibodies.
- (c) Medical devices used in Cardiology.
5. (a) What do you understand by ophthalmic products ? Discuss special properties of Eye drops with regard to their formulation. 5
- (b) Discuss various methods for preparation of ointments. 5
6. (a) Classify skin care creams. Discuss any three in brief. 5
- (b) Define nutraceuticals. Discuss dietary supplements. 5
7. Write short notes on :
- (a) DNA recombinant technology products. 5
- (b) Novel drug delivery system 5

8. (a) Discuss various Pharmaceutical factors affecting absorption of drugs. 5
- (b) Classify clinical trials. Discuss Controlled trials in details. 5
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