

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

**Term-End Examination**

**December, 2011**

**MVE-003 : PHARMACEUTICS**

*Time : 2 hours*

*Maximum Marks : 50*

**Note :** *Answer any five questions.*

1. (a) Write the five advantages of plastic containers for packaging of Pharmaceuticals. 5  
(b) Define "dose" of a drug. Write two methods of calculation of paediatric dose from adult dose. 5
2. (a) Define tablet. Write the advantages of tablet. 6  
(b) What are different methods of preparation of ointment. Discuss any one method in detail. 4
3. (a) Name the test carried out for the evaluation of parenteral products. Discuss sterility test in detail. 5  
(b) Name the physico-chemical properties affecting bio - availability. 3  
(c) Define investigational drugs. 2

4. Define Ophthalmic preparations. What are the special properties needed for eye drops. Explain on two of them. **10**
5. (a) What are the commonly used cardiac devices ? Give a brief note on any two. **6**  
(b) What is clinical trial ? When it is required ? **4**
6. (a) What is prevention of Food Adulteration Act 1954 ? **4**  
(b) Discuss any three physio-chemical factors affecting drug absorption. **6**
7. Answer *any three* of the following : **2x3=6**  
(a) (i) What is recombinant DNA Technology ?  
(ii) What is retrovirus ?  
(iii) What is Hybridoma ?  
(iv) What is Mabs ?  
(b) What are different types of skin care creams and explain any one briefly. **4**
8. Give short notes on *any four* : **2.5x4=10**  
(a) Filtration sterilization  
(b) Therapeutic uses of probiotics  
(c) NDSS  
(d) First pass effect  
(e) Intrauterine contraceptive devices  
(f) Active transport
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