

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

Term-End Examination

June, 2010

MVE-003 : PHARMACEUTICS

Time : 2 hours

Maximum Marks : 50

Note : Answer any five questions. Draw diagrams, charts, etc. wherever needed.

1. (a) What do you understand by 'dose' of a drug ? Write any two rules for calculating the dose for infants or children. 5
- (b) Write any five advantages of using plastics as containers for packaging of dosage forms. 5
2. (a) What are tablets ? Write the advantages of tablet dosage forms. 6
- (b) Write down the various types of preparations used externally. 4
3. What are the ophthalmic preparations ? Write down the special properties required for the preparation of eye drops. Describe any two of these. 10

4. (a) Differentiate between 'Bio availability' and 'Bio equivalence'. 5
- (b) What are the physico - chemical properties influencing bio availability of a drug ? 3
- (c) What is meant by investigational drug ? 2
5. (a) What is clinical trial ? Why it is conducted ? 4
- (b) Describe briefly the commonly used cardiac devices. 6
6. (a) What are the pharmaceutical factors affecting absorption of drugs ? Discuss briefly. 4
- (b) What are the salient features of the prevention of Food Adulteration Act, 1954 ? 6
7. (a) Define *any three* of the following : 2x3=6
- (i) Recombinant DNA technology
- (ii) Retro virus
- (iii) Hybridoma
- (iv) Mabs
- (b) Classify the skin care creams on the basis of their functions. 4

8. Write brief notes on *any four* : 2.5x4=10

- (a) Eye drops
 - (b) Parenteral products
 - (c) Investigational drugs
 - (d) Probiotics
 - (e) Transport of drugs across biological membranes
 - (f) Novel drug delivery systems.
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