

00135

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

Term-End Examination

June, 2011

MVE-003 : PHARMACEUTICS

Time : 2 hours

Maximum Marks : 50

Note : *Answer any five questions. All questions carry equal marks. Draw diagrams, charts, etc. Wherever needed.*

1. (a) Give the classification of dosage forms with one example each. 4
- (b) What do you understand by the term excipient ? Explain various additives used in formulation of dosage forms. 6
2. (a) What are the essential Qualities of parenteral products ? 5
- (b) What are the advantages and disadvantages of parenteral route of administration ? 5
3. (a) What are implants ? .Name different types of implants. Discuss one such type in detail. 5
- (b) Give the classification of Novel drug delivery systems. 5

4. (a) Discuss various types of medical devices. 5
(b) Discuss various - physio - chemical factors affecting absorption of drugs. 5
5. (a) What is bio equivalence study ? Discuss its importance. 4
(b) Explain the Human / Clinical pharmacology trials (Phase - I). 6
6. (a) What are different types of creams ? Discuss any one cream in detail. 5
(b) What are dental products ? Explain tooth powder of tooth paste. 5
7. Write short notes on *any two* : 5x2=10
(a) Probiotics
(b) Monoclonal antibodies
(c) Recombinant DNA technology.
8. (a) What are radio pharmaceuticals and contrast media used for diagnostic purposes ? 5
(b) Name various methods used for sterilization of pharmaceutical products. Discuss steam sterilization in detail. 5
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