

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

Term-End Examination

December, 2016

MVE-003 : PHARMACEUTICS

Time : 2 hours

Maximum Marks : 50

Note : (i) *Answer any five questions.*

(ii) *All questions carry equal marks.*

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1. (a) Briefly describe **any two** of the following : 5
(i) Douches
(ii) Liniments
(iii) Inhalations
(iv) Suppositories
(b) List the mechanisms for Gastro-intestinal Absorption ? Explain any one briefly. 5
2. (a) What are the disadvantages of liquid dosage forms ? 5
(b) Define and explain 'Bio-availability'. 5
3. (a) List the various tests used to evaluate parenteral products and describe any one. 5
(b) Define Hybridoma and discuss the importance of hybridoma technique. 5

4. (a) Give any one use of **any five** of the following devices : 5
- (i) Foley Catheter
 - (ii) Pessaries
 - (iii) Cochlear Implants
 - (iv) Chest tube
 - (v) IUDs
 - (vi) Gastro intestinal tube
 - (vii) Orthopedics Implants
- (b) What are probiotics ? Give their therapeutic uses. 5
5. (a) Give the uses of the following : 5
- (i) Indoles
 - (ii) Flavonoids
 - (iii) Dentrifice
 - (iv) Rouges
 - (v) Mouth washes
- (b) What do you understand by 'Functional Foods' ? Give their advantages and disadvantages. 5
6. (a) What are hard and soft gelatin capsules ? Give advantages of capsules. 5
- (b) What do you understand by Exploratory and Confirmatory Trials ? Explain briefly. 5
7. (a) List the various methods used for sterilization of pharmaceuticals products ? Discuss any one of them briefly. 5
- (b) Explain what you understand by terms : 'First Pass Effect' and 'Drug Clearance'. 5
8. What do you understand by 'Novel Drug Delivery System' ? Elaborate giving its categories, advantages and disadvantages. 10