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**MVE-003**

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

**Term-End Examination**

**December, 2020**

**MVE-003 : PHARMACEUTICS**

*Time : 2 Hours*

*Maximum Marks : 50*

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

(ii) All questions carry equal marks.

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1. (a) Write *five* advantages and *five* disadvantages of plastic drug containers. 5
- (b) What are Aerosols and how are they applied in Pharmacy? 5
2. (a) List any *five* types of tablets and give advantages of each one of them. 5
- (b) What are Ophthalmic Products? List their properties. 5

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**P. T. O.**

3. Write short notes on any *four* of the following :  $2\frac{1}{2}$  each
- (a) Radiopharmaceuticals and their therapeutic uses
  - (b) Orthopaedic implants
  - (c) Feeding tubes
  - (d) Syrups
  - (e) Cardiac devices
  - (f) Emulsions
4. (a) Explain the sterilization process. Classify different methods of sterilization. 5
- (b) Explain 'First Pass Effect' and 'Drug Clearance'. 5
5. (a) What is meant by bioavailability ? Enlist the physico-chemical factors affecting absorption and bioavailability for oral drugs. 5
- (b) What is the significance of conducting clinical trials ? 5
6. (a) What are dosage forms ? Explain any *two* with suitable examples. 5
- (b) Describe the cosmetics available for skin. 5

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7. (a) Describe antioxidants giving their uses. 5  
(b) What are Probiotics ? Give examples and uses of probiotics. 5
8. (a) What are Capsules ? Enlist their advantages and disadvantages. 5  
(b) Explain in 1-2 lines (any *five*) : 1 each
- (i) Elixirs
  - (ii) Intradermal parenteral
  - (iii) Isotonicity
  - (iv) Douches
  - (v) Enemas
  - (vi) Angioplasty