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MVE–003

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

Term-End Examination

December, 2023

MVE-003 : PHARMACEUTICS

Time : 2 Hours

Maximum Marks : 50

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

(ii) All questions carry equal marks.

1. (a) What is a clinical trial ? Why are they conducted ? Explain first *two* phases of a clinical trial. 7

(b) Define the following in **1-2** sentences each :

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(i) Posology

(ii) Vehicle

(iii) Liniments

P. T. O.

2. (a) Give a brief about different routes of administration on which dosage forms can be classified. 5
- (b) Discuss advantages and disadvantages of plastic containers. 5
3. What are ophthalmic products ? Discuss their properties in detail. 10
4. Explain the following implants and give their significance : $2 \times 5 = 10$
- (i) Dental implants
- (ii) Eye implants
- (iii) Cochlear implants
- (iv) Breast implants
- (v) Orthopedic implants
5. (a) How are drugs disposed in body ? Explain Phase-I and Phase-II reactions. 5
- (b) Illustrate uses of radiopharmaceuticals for diagnostic and therapeutic purposes. 5
6. (a) What is recombinant DNA technology ? Discuss its applications. 5
- (b) Explain different uses of probiotics. 5

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7. (a) Distinguish between the following : 5
- (i) Food and Functional Foods
 - (ii) Emulsions and Parenterals
- (b) Broadly classify cosmetics and discuss any *one* group in detail. 5
8. (a) What are dietary supplements or food supplements ? 5
- (b) Discuss advantages of the following : 5
- (i) Filtration sterilization
 - (ii) Capsules