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

Term-End Examination

December, 2018

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. | Classify the dosage forms on the basis of different routes of administration. | 10 |
| 2. | (a) Describe any two physico-chemical factors affecting drug absorption. | 5 |
| | (b) What are Probiotics ? Explain giving their uses and examples. | 5 |
| 3. | (a) What are the commonly used Cardiac devices ? Give a brief note on any two. | 5 |
| | (b) What is bioequivalence study ? Discuss its importance. | 5 |
| 4. | Write short notes on any two : | 5x2=10 |
| | (a) Monoclonal antibodies | |
| | (b) Recombinant DNA technology | |
| | (c) Intrauterine devices | |
| 5. | (a) List the different phases of clinical trial and explain any two of them. | 5 |
| | (b) List the different types of creams. Discuss any two creams in detail. | 5 |

6. (a) Define Nutraceuticals giving its importance. 5
List the ingredients of Nutraceuticals.
- (b) What are Emulsions? Describe the various 5
types of emulsions depending upon their
usage.
7. Write short notes on any two : 2x5=10
(a) Steam Sterilization
(b) Pastes
(c) Phytochemicals
8. (a) Describe 'First Pass Effect' and 'Drug 5
Clearance' in drug disposition.
- (b) List the 'Specially used' monophasic liquid 5
dosage forms.
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