

No. of Printed Pages : 2

MVE-003

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.*

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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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MVE-003

POST GRADUATE DIPLOMA IN  
PHARMACEUTICAL SALES MANAGEMENT  
(PGDPSM)

Term-End Examination

December, 2011

MVE-003 : PHARMACEUTICS

Time : 2 hours

Maximum Marks : 50

Note : Answer any five questions.

1. (a) Write the five advantages of plastic containers for packaging of Pharmaceuticals. 5
- (b) Define "dose" of a drug. Write two methods of calculation of paediatric dose from adult dose. 5
2. (a) Define tablet. Write the advantages of tablet. 6
- (b) What are different methods of preparation of ointment. Discuss any one method in detail. 4
3. (a) Name the test carried out for the evaluation of parenteral products. Discuss sterility test in detail. 5
- (b) Name the physico-chemical properties affecting bio - availability. 3
- (c) Define investigational drugs. 2

4. Define Ophthalmic preparations. What are the special properties needed for eye drops. Explain on two of them. 10
5. (a) What are the commonly used cardiac devices ? Give a brief note on any two. 6  
(b) What is clinical trial ? When it is required ? 4
6. (a) What is prevention of Food Adulteration Act 1954 ? 4  
(b) Discuss any three physio-chemical factors affecting drug absorption. 6
7. Answer *any three* of the following : 2x3=6  
(a) (i) What is recombinant DNA Technology ?  
(ii) What is retrovirus ?  
(iii) What is Hybridoma ?  
(iv) What is Mabs ?  
(b) What are different types of skin care creams and explain any one briefly. 4
8. Give short notes on *any four* : 2.5x4=10  
(a) Filtration sterilization  
(b) Therapeutic uses of probiotics  
(c) NDSS  
(d) First pass effect  
(e) Intrauterine contraceptive devices  
(f) Active transport
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MVE-003

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

**Term-End Examination**

**June, 2012**

**MVE-003 : PHARMACEUTICS**

*Time : 2 hours*

*Maximum Marks : 50*

**Note :** *Answer any five questions.*

1. (a) What is prescription ? Write the parts of prescription. 5
- (b) What are different classes of additives used in dosage form ? Discuss any two of them. 5
2. (a) What are liquid dosage form ? Write the advantages of liquid dosage forms. 5
- (b) What is sterilization ? Enlist different methods of sterilization. 2
- (c) What are disadvantages of parenteral route of drug administration ? 3
3. (a) What are Aerosols ? Write the merits of Aerosol drug delivery. 5
- (b) What is NDDS ? Write the advantages and disadvantages of NDDS. 5

4. (a) What is absorption ? Write the mechanism of gastro-intestinal absorption. 7
- (b) What are essential qualities of parenteral products ? 3
5. Write notes on *any four* : 4x2.5=10
- (a) Biopharmaceuticals
- (b) Recombinant DNA Technology
- (c) Clinical Trials
- (d) Monoclonal Antibodies
- (e) GCP
- (f) Vehicles used in parenteral products
6. (a) What are cosmetics ? Classify cosmetics for skin . 5
- (b) What are Biphasic liquid dosage forms. Write note on emulsion. 5
7. (a) What are neutraceuticals ? Write the 10 ingredients of neutraceuticals. 5
- (b) Why buffering agents and antimicrobial preservatives are added to parenteral products ? 5
8. Write notes on *any four* : 4x2.5=10
- (a) Radio contrast medium
- (b) Eye Implant
- (c) Hair colourants
- (d) Cardiac Pacemaker
- (e) Need for probiotics
- (f) Soft Gelatin Capsules

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POST GRADUATE DIPLOMA IN  
PHARMACEUTICAL SALES MANAGEMENT  
(PGDPSM)

Term-End Examination

December, 2012

MVE-003 : PHARMACEUTICS

Time : 2 hours

Maximum Marks : 50

Note : Answer **any five** questions. All questions carry **equal** marks.

1. (a) Define dosage forms, classify them with one example from each class. 5  
(b) Enumerate different type of tablets. Give different types of tablet packaging. 5
2. (a) What is sterilization ? Name various methods used for sterilization. 5  
(b) Explain the tests carried out for the evaluation of parenterals products. 5
3. Write short note on **any two** of the following :  $5 \times 2 = 10$   
(a) Use of Radio Pharmaceuticals and contrast media as diagnostic Agents.  
(b) Aerosols  
(c) Additives used in the formulation of various dosage forms.

4. (a) What are dentrifices ? Discuss tooth powder and tooth pastes. 5  
(b) Classify hair preparations. Discuss hair colorants in detail. 5
5. (a) What are probiotics ? Enumerate commonly used probiotic strains. 5  
(b) What do you understand "Medical devices " ? Discuss any four in brief. 5
6. (a) Classify ointment bases and list down the factors affecting selection of ointment bases. 5  
(b) What are pastes ? Enumerate the different bases used for pastes. 5
7. (a) Define bio availability. Discuss the importance of bioequivalence. 5  
(b) What are the different phases of clinical trials ? Discuss any two in detail. 5
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8. (a) Discuss any four biological/physiological factors affecting absorption of drugs. 5  
(b) What are Nutraceuticals ? Discuss merits and disadvantages of functional foods. 5

No. of Printed Pages : 3

MVE-003

POST GRADUATE DIPLOMA IN  
PHARMACEUTICAL SALES MANAGEMENT  
(PGDPSM)

Term-End Examination

June, 2013

MVE-003 : PHARMACEUTICS

Time : 2 hours

Maximum Marks : 50

Note : Attempt *any five* questions. All questions carry equal marks.

1. (a) What are the different rules for calculating the doses for children ? 5
- (b) Discuss various types of glass container used and list down merit or demerits of glass used as material for storage and packaging of pharmaceutical products. 5
2. Answer the following :
- (a) (i) Differentiate between hard and soft gelatin capsules. 2
- (ii) Differentiate between Oil in Water Emulsions and Water in Oil Emulsion. 3
- (b) List down various types of Capsules. Give advantages and disadvantages of tablets. 5

3. (a) Name various methods used for sterilisation of pharmaceuticals. Explain steam sterilisation in detail. 5
- (b) What are added substances used in parenteral products? Discuss any four in brief. 5

4. Write short note on *any two* of the following : 5x2=10
- (a) Therapeutic uses of Probiotics.
- (b) Monoclonal antibodies.
- (c) Medical devices used in Cardiology.

5. (a) What do you understand by ophthalmic products? Discuss special properties of Eye drops with regard to their formulation. 5
- (b) Discuss various methods for preparation of ointments. 5

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6. (a) Classify skin care creams. Discuss any three in brief. 5
- (b) Define nutraceuticals. Discuss dietary supplements. 5

7. Write short notes on :
- (a) DNA recombinant technology products. 5
- (b) Novel drug delivery system 5

8. (a) Discuss various Pharmaceutical factors affecting absorption of drugs. 5
- (b) Classify clinical trials. Discuss Controlled trials in details. 5
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MVE-003

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

**Term-End Examination**

**December, 2013**

**MVE-003 : PHARMACEUTICS**

*Time : 2 hours*

*Maximum Marks : 50*

*Note : Attempt any five questions.*

1. (a) Define posology. Discuss the dosage calculation for children according to age. 5  
(b) What are the desirable features of a container ? Enlist various types of container ? 5
2. (a) Discuss the advantages and disadvantages of glass containers. 5  
(b) Discuss the advantages of tablet or capsule dosage form. 5
3. (a) What are the various types of Biphasic liquid dosage form ? Explain suspensions. 5  
(b) Enlist methods of sterilization. Discuss dry heat sterilization in detail. 5
4. (a) What is the use of Buffering agent and antimicrobial preservatives in the formulation of parenteral products ? 6  
(b) Discuss the Isotonicity and Ocular bioavailability of eye drops. 4

5. (a) Write down the factors affecting selection of ointment base. 3  
(b) Define creams and jellies. 4  
(c) Discuss the merits of Aerosols in drug delivery. 3
6. (a) How lipid solubility and complementation affect absorption of drugs ? 6  
(b) Define the terms Bioavailability and Biopharmaceutics. 4
7. (a) What are various phases of clinical trial ? Discuss any one phase of clinical trial in detail. 5  
(b) Describe the steps involved in the production of monoclonal antibodies. 5
8. (a) What are advantages of functional food ? 4  
(b) Define probiotics. What are the causes for disruption of the normal gastro intestinal tract ? What are the consequence of disruption of the normal flora ? 6

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**MVE-003**

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

**Term-End Examination**

**December, 2014**

00654

**MVE-003 : PHARMACEUTICS**

*Time : 2 hours*

*Maximum Marks : 50*

**Note :** Answer any *five* questions. All questions carry equal marks.

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1. (a) Classify the additives used in dosage forms giving suitable examples. 5
  - (b) What are the types of containers used in packaging of dosage forms ? 5
  2. (a) Enumerate the various types of tablets. Describe their advantages. 5
  - (b) Explain the different phases of clinical trial. 5
  3. (a) What are emulsions ? Discuss their different types. 5
  - (b) Briefly discuss the various methods of sterilization of pharmaceutical products. 5

4. (a) What are the various routes of parenteral administration ? Give the disadvantages of this route of drug administration. 5
- (b) Discuss the different types of ointment bases. 5
5. (a) Define aerosols. Discuss their applications in Pharmacy. 5
- (b) Write a note on Radiopharmaceuticals and contrast media. 5
6. (a) Enumerate the different types of implants. 5
- (b) Discuss the advantages and disadvantages of Novel drug delivery system. 5
7. Briefly describe the physico-chemical factors affecting absorption of drugs. 10
8. (a) Discuss the factors affecting biotransformation of drugs. 5
- (b) What are monoclonal antibodies ? 5

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MVE-003

POST GRADUATE DIPLOMA IN  
PHARMACEUTICAL SALES MANAGEMENT  
(PGDPSM)

Term-End Examination

June, 2015

MVE-003 : PHARMACEUTICS

Time : 2 hours

Maximum Marks : 50

Note : Answer any five questions.

1. (a) What is Posology ? How do you calculate the dosage for children ? 5
- (b) Enumerate the commonly - used dosage forms used locally. 5
2. (a) Discuss the types of Glass used for construction of containers. 5
- (b) Classify the different types of monophasic liquid dosage forms used orally. 5
3. (a) What are suspensions ? Discuss its types. 5
- (b) Discuss the principle, conditions and uses of dry heat sterilisation. 5
4. Describe the formulation and packaging of parenteral products. 10

5. (a) What are the different categories of NDDS ? Discuss one of them. 5  
(b) Give the uses of Radiopharmaceuticals for diagnostic purposes. 5
6. Discuss the different types of medical devices in detail. 10
7. (a) What are the pharmaceutical factors affecting the absorption of drugs ? 5  
(b) Name the different types of mabs. 5
8. (a) Define Bioavailability and Bioequivalence. 5  
(b) What are Nutraceuticals ? Give their ingredients. 5

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MVE-003

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

**Term-End Examination**

**December, 2015**

**MVE-003 : PHARMACEUTICS**

*Time : 2 hours*

*Maximum Marks : 50*

*Note : Answer **any five** questions. All questions carry equal marks.*

- 
1. (a) Discuss materials for construction of containers. 5
- (b) Briefly describe tablets giving emphasis on their formulation aspects. 5
- 
2. (a) What is Posology ? How do you calculate the dosage for children by Young's Rule ? 5
- (b) Give a brief description of commonly used solid dosage forms. 5
- 
3. (a) Describe various routes of parenteral administration. Enlist disadvantages of this route. 5
- (b) Discuss the types of containers used in packaging of dosage forms. 5

4. (a) What are the different categories of Novel Drug Delivery Systems ? Discuss each one of them. 5
- (b) Discuss the principle of steam-sterilization. Give its conditions and usage. 5
5. Discuss the different types of Implants. 10
6. (a) What are the biological factors affecting absorption of drugs ? 5
- (b) What are monoclonal antibodies. Discuss hybridoma in short ? 5
7. (a) Explain the different phases of clinical trials. 5
- (b) What are nail cosmetics ? Discuss in detail. 5
8. (a) What are probiotics ? Why are they needed ? 5
- (b) Discuss the commonly used probiotic strains. 5

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**MVE-003**

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

**Term-End Examination**

**June, 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) | Define Bioavailability. Discuss factors affecting bioavailability. | 6 |
|    | (b) | What are Recombinant DNA Technology products ?                     | 4 |
- 
2. Discuss the physico-chemical factors affecting the absorption of drugs in detail. 10
3. Give a detailed description of different types of Medical Devices. 10
- |    |     |  |   |
|----|-----|--|---|
| 4. | (a) | Discuss Biphasic Liquid dosage forms giving emphasis on their packaging. | 5 |
|    | (b) | Compare Glass and Plastic as a material of construction for containers.  | 5 |

5. (a) Discuss the mechanisms for Gastro-Intestinal absorption. 5  
(b) What are the drug release patterns of controlled delivery dosage forms ? 5
6. (a) What are the various methods of sterilization of pharmaceutical products ? Give examples. 5  
(b) Discuss formulation of parenteral products. 5
7. (a) Discuss the Cosmetics for the skin. 5  
(b) What are the various tooth and dental products ? 5
8. (a) Define aerosols. Discuss their preparation. 5  
(b) What are Radiopharmaceuticals and Contrast media ? 5

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**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.*

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

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**MVE-003**

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

**Term-End Examination**

**June, 2017**

**MVE-003 : PHARMACEUTICS**

*Time : 2 hours*

*Maximum Marks : 50*

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

*(ii) All questions carry equal marks.*

1. (a) Briefly explain Single and Multi dose containers. Write any three advantages and three disadvantages of plastic containers. 5
- (b) List any five phytochemicals and give their health benefits. 5
2. What do you understand by 'Sterilization'? What are the various methods used for sterilization of pharmaceutical products? Explain each of them briefly. 10
3. (a) Give the uses of Radio pharmaceuticals for : 5
- (i) Diagnostic purposes (any three)
- (ii) Therapeutic purposes (any two)
- (b) Explain the pharmaceutical factors affecting absorption of drugs. 5

4. (a) Define aerosols. Discuss their applications in Pharmacy. 5  
(b) Describe briefly monoclonal antibodies. 5
5. (a) What do you understand by the term 'Bioavailability'? Explain giving any two examples of dosage forms. 5  
(b) Write a brief note on 'Antioxidants' giving examples. 5
6. Briefly explain the following in 3-4 lines (any four) :  $2\frac{1}{2} \times 4 = 10$   
(a) Intrathecal Administration route  
(b) Intra-peritoneal route  
(c) Open Trial  
(d) Elixirs  
(e) Lactobacillus
7. (a) Explain 'Endocytosis' and 'First Pass Effect'. 5  
(b) What are probiotics? Give their therapeutic uses. 5
8. (a) What are the uses of the following (any five)? 5  
(i) Foley Catheter  
(ii) Pessaries  
(iii) Cochlear Implants  
(iv) Sunscreen preparations  
(v) Dentrifrice  
(vi) After Shave Lotion  
(b) List the different types of Ointment bases and explain any one. 5

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MVE-003

POST GRADUATE DIPLOMA IN  
PHARMACEUTICAL SALES MANAGEMENT  
(PGDPSM)

Term-End Examination

December, 2017

MVE-003 : PHARMACEUTICS

Time : 2 hours

Maximum Marks : 50

Note : (i) Answer any five questions.

(ii) All questions carry equal marks.

1. (a) What are the materials for construction of containers used for packaging of dosage forms ? Give their advantages and disadvantages. 5
- (b) Write a short note on 'Dosage calculation for children'. 5
2. Write short notes on (Any two) : 5x2=10
- (a) Methods for preparation of ointments
- (b) Implants
- (c) Novel Drug Delivery Systems
- (d) Aerosols
3. (a) List the various methods for sterilization of pharmaceutical products. Elaborate 'Steam Sterilization' in detail. 5
- (b) Explain briefly 'Evaluation of Parenteral Products'. 5

4. (a) Which is the most commonly used solid dosage form of medication ? Describe its various types with suitable examples. 5
- (b) What are the different types of monophasic liquid dosage forms ? Describe syrups in detail. 5
5. (a) What are Biopharmaceuticals ? Discuss briefly with suitable examples. 5
- (b) What is hybridoma technique ? Give its applications. 5
6. (a) Describe the factors affecting Bioavailability. 5
- (b) What are the different phases of clinical trials ? Describe any one in detail. 5
7. (a) List the various mechanisms for gastrointestinal absorption. Explain any one in detail. 5
- (b) Describe pharmaceutical factors affecting absorption of drugs. 5
- 
8. (a) List the cosmetics for the skin. Describe skin colorants in detail. 5
- (b) Discuss the dietary supplements. Describe antioxidants in detail. 5

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MVE-003

00123

POST GRADUATE DIPLOMA IN  
PHARMACEUTICAL SALES MANAGEMENT  
(PGDPSM)

Term-End Examination

June, 2018

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 Posology ? How do you calculate doses for children and adults ? Give the formulae. 5  
(b) Define Probiotics. Discuss their mechanism of action. 5
2. (a) What are Nutraceuticals ? Discuss their ingredients. 5  
(b) Classify cosmetics. Write use of cleansing creams. 5
3. (a) Discuss the formulation of Parenteral products. 5  
(b) Briefly describe the various types of ophthalmic products. 5
4. Write short notes on : (Any 02) 5x2=10  
(a) Pathways of Biotransformation and factors affecting them  
(b) Functional foods  
(c) Monoclonal antibodies  
(d) Medical Devices

5. (a) Enlist various biological/physiological factor affecting absorption of drugs. Discuss any two in detail. 5
- (b) What are the various types of implants ? Describe briefly. 5
6. (a) What are Bioequivalence Studies ? Discuss its importance. 5
- (b) Define the following : (Any five) 1x5=5
- (i) Bioavailability
  - (ii) Clinical trials
  - (iii) Nuremberg Code
  - (iv) Investigational Drug
  - (v) Informed consent
  - (vi) Post marketing surveillance
  - (vii) Excipient
7. (a) Elaborate the Recombinant DNA Technology in detail. 5
- (b) Discuss the various monophasic liquid dosage forms giving suitable examples. 5
8. (a) Classify the ointment bases and discuss the various factors affecting selection of ointment base. 5
- (b) Write a short note on Radio Pharmaceuticals and Contrast Media. 5
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MVE-003

00992

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

**Term-End Examination**

**December, 2018**

**MVE-003 : PHARMACEUTICS**

*Time : 2 hours*

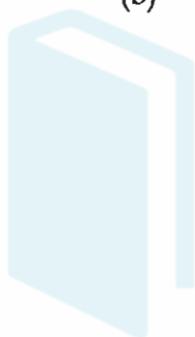
*Maximum Marks : 50*

*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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01074

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MVE-003

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

**Term-End Examination, 2019**

**MVE-003 : PHARMACEUTICS**

**Time : Two Hours]**

**[Maximum Marks : 50**

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**Note :** Answer any five questions. All questions carry equal marks.

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1. (a) Give any five advantages of glass containers used in pharmaceutical packaging. [5]
- (b) Explain any two of the following terms : [5]
- (i) 'Passive Diffusion'
- (ii) Active Transport
- (iii) 'Endocytosis'
2. (a) Briefly explain the five types of Genitourinary devices. [5]
- (b) Briefly describe any five hair cosmetics. [5]

3. Write short notes on **any four** : [2½x4=10]

- (a) Steam Sterilization
- (b) Parenterals
- (c) Soft Gelatin Capsules
- (d) Cardiac Devices
- (e) Informed Consent

(f) Emulsions

4. Briefly describe the physico-chemical properties that influence the absorption and bioavailability of oral drug products. [10]

5. (a) Give essential properties and uses of Ophthalmic products. [5]

(b) What is clinical trial? Practices (GCP) name the phases of clinical trial and explain any one of the phases. [5]

6. (a) Define aerosol drugs. How are they useful in pharmacy? [5]

- (b) Define 'hybridoma'. What are the advantages of hybridoma technique ? What are Radiopharmaceuticals ? [5]
7. (a) Give the types of uses of 'Radiopharmaceuticals' with one example of each type. [5]
- (b) Explain 'Nutraceuticals'. Give the ingredients of nutraceuticals. [5]
8. Write short notes on **any four** of the following : [2½x4=10]
- (a) Post Marketing Surveillance
- (b) Jellies
- (c) Eye Implants
- (d) Probiotics
- (e) Sunscreen preparations
- (f) Mouthwash

----- X -----

No. of Printed Pages : 1

MVE-003

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

**Term-End Examination**

**December, 2019**

**MVE-003 : PHARMACEUTICS**

*Time : 2 hours*

*Maximum Marks : 50*

- Note :**
- (i) Answer *any five* questions.
  - (ii) All the questions carry equal marks.

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- |    |  |     |
|----|--|-----|
| 1. | (a) Describe any two tests carried out for the evaluation of parenteral products.                        | 5   |
|    | (b) What are functional foods ? Give examples.   | 5   |
| 2. | (a) Give any two formula/rules for calculating infant and children dosages.                              | 5   |
|    | (b) What are the different classes of liquid dosage Forms ? Give disadvantages of liquid dosage forms ?  | 5   |
| 3. | (a) List any four properties required for preparation of eye drops. Describe any one property in detail. | 5   |
|    | (b) Describe any two methods for preparation of Ointments.   | 5   |
| 4. | (a) Explain different uses of Radiopharmaceuticals.  | 5   |
|    | (b) What are Aerosols and what are the merits of Aerosol Drug Delivery ?                                 | 5   |
| 5. | (a) Describe the Pharmaceutical factors affecting Absorption of Drugs.                                   | 5   |
|    | (b) What is meant by Pharmacokinetics ? Write its applications.  | 5   |
| 6. | Write short note on <b>any two</b> of the following :  | 5+5 |
|    | (a) Therapeutic uses of probiotics   |     |
|    | (b) Cloning vectors  |     |
|    | (c) Monoclonal antibodies  |     |
| 7. | (a) Describe any two phases of Clinical trials.  | 5   |
|    | (b) What are phytochemicals ? Give four examples.  | 5   |
| 8. | (a) Describe the functions of Cleansing and Sunscreen creams.  | 5   |
|    | (b) Give advantages and disadvantages of Parenterals.  | 5   |

No. of Printed Pages : 2

**MVE-003**

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

**Term-End Examination**

**MVE-003 : PHARMACEUTICS**

*Time : 2 Hours]*

*[Maximum Marks : 50*

**Note:** Answer any five questions.

All questions carry equal marks.

1. a. Write short note on Biphasic Liquid dosage Form. 5  
b. Differentiate between bioavailability and bioequivalence of drug. 5
2. a. Describe the Nuremberg Code. 5  
b. List any five desirable features of a container for the packaging of dosage forms. 5
3. a. What are ointments? List different classes of ointments and describe any one class. 5  
b. What are the advantages of parenteral route of administration? 5
4. Write short notes on any two- 5+5=10  
a. Nutraceuticals



- b. Tooth and dental products
- c. Hepatic elimination of drugs
5. a. What is Hybridoma? What are the advantages of hybridoma technique? 5
- b. What are the proposed uses and health benefits of Probiotics. 5
6. Write the use of following devices:  $2\frac{1}{2} \times 4 = 10$
- a. Pace maker
- b. Artificial urinary sphincters (AVS)
- c. Feeding tubes
- d. Catheters
7. List any four psychological factors affecting absorption of drugs? Describe any one. 10
8. a. Enlist advantages and disadvantages of capsules. 5
- b. How tablets are packaged? 5

No. of Printed Pages : 3

**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

[ 2 ]

MVE-003

3. Write short notes on any *four* of the following : 2½ 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

[ 3 ]

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

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