

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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No. of Printed Pages : 2

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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No. of Printed Pages : 2

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

No. of Printed Pages : 2

MVE-003

**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
-
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
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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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No. of Printed Pages : 2

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.

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|----|-----|--|---|
| 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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No. of Printed Pages : 2

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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No. of Printed Pages : 2

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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No. of Printed Pages : 2

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.

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- | | | | |
|-------|-----|---|---|
| 1. | (a) | Discuss materials for construction of containers. | 5 |
| | (b) | Briefly describe tablets giving emphasis on their formulation aspects. | 5 |
| <hr/> | | | |
| 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 |
| <hr/> | | | |
| 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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No. of Printed Pages : 2

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 |
| <hr/> | | | |
| 2. | | Discuss the physico-chemical factors affecting the absorption of drugs in detail. | 10 |
| <hr/> | | | |
| 3. | | Give a detailed description of different types of Medical Devices. | 10 |
| <hr/> | | | |
| 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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No. of Printed Pages : 2

MVE-003

**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 ? 5
Give advantages of capsules.
- (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 ? 5
Discuss any one of them briefly.
- (b) Explain what you understand by terms : 5
'First Pass Effect' and 'Drug Clearance'.
8. What do you understand by 'Novel Drug Delivery System' ? Elaborate giving its categories, advantages and disadvantages. 10

No. of Printed Pages : 2

MVE-003

00013

**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) Dentrifice
(vi) After Shave Lotion
(b) List the different types of Ointment bases and explain any one. 5

No. of Printed Pages : 2

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

No. of Printed Pages : 2

MVE-003

**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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No. of Printed Pages : 2

MVE-003

**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.*

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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No. of Printed Pages : 3

MVE-003

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

Term-End Examination, 2019

MVE-003 : PHARMACEUTICS

Time : Two Hours]

[Maximum Marks : 50

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

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

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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.

-
- | | | | |
|----|---|--|-----|
| 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 any two 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: 2½x4=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

—x—

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

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

(ii) All questions carry equal marks.

-
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 : $2\frac{1}{2}$ 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

[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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