

No. of Printed Pages : 3

MVE-001

00366

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

**Term-End Examination**

**June, 2011**

**MVE-001 : INTRODUCTION TO ANATOMY,  
PHYSIOLOGY AND PHARMACEUTICAL  
CHEMISTRY**

*Time : 3 hours*

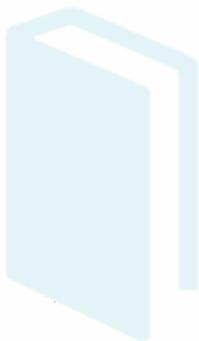
*Maximum Marks : 75*

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

1. (a) Give any five principles of G C P. 5  
(Good Clinical Practices).
- (b) Give details of various steps of evaluation 5  
of suppositories.
- (c) What is QSAR ? Give its importance in 5  
Pharmaceutical Chemistry.
2. (a) Give any 8 points of Indian Pharmacopia 8  
Monograph Format.
- (b) Give any seven Ayurvedic formulations 7  
used in herbal medicines.

3. (a) Discuss with the help of examples the significance of stereo isomerism in drugs. 5
- (b) How is the physiological acid - base balance maintained in the body ? 5
- (c) Describe the mechanism of action of Saline Cathartics and Bulk purgatives. 5
4. (a) What are antacids ? Write down the requirements of an ideal antacid. 5
- (b) Describe the disorders of joints. 5
- (c) What is Leukemia ? Give the types of Leukemia. 5
5. (a) Describe any two disorders of female sex organs and male sex organs. 5
- (b) Describe any five disorders of the nervous system. 5
- (c) What are various modes of transmission of air borne diseases ? Describe pneumonia. 5
6. Write short notes on (*any three*) 15
- (a) Pancreas and its hormones
- (b) Chemical inflammatory mediators
- (c) Spinal Cord
- (d) Ducts of male reproductive system
- (e) Heart

7. (a) Describe with the help of diagrams, the process of inhalation and exhalation in respiration. 15
- (b) What are important functions of Nervous System ?
- (c) Draw a well labelled diagram of Kidney.
8. (a) With the help of a diagram enumerate various organs of digestive system. 15
- (b) Describe the structure and composition of cell membrane giving a well - labelled diagram.
- (c) Discuss the GMPs with respect to location and surrounding.



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No. of Printed Pages : 3

MVE-001

00646

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

**Term-End Examination**

**December, 2011**

**MVE-001 : INTRODUCTION TO ANATOMY,  
PHYSIOLOGY AND PHARMACEUTICAL  
CHEMISTRY**

*Time : 3 hours*

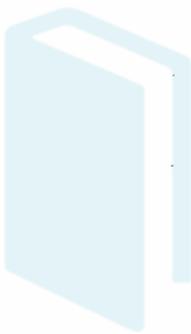
*Maximum Marks : 75*

*Note : Attempt any five questions.*

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- |       |       |  |                      |
|-------|-------|--|----------------------|
| 1.    | (a)   | Discuss the functions of Liver.  | 5                    |
|       | (b)   | Give functions of blood.   | 5                    |
|       | (c)   | What are topical agents ? Name the different categories of these agents and describe any one.                      | 5                    |
| <hr/> |       |  |                      |
| 2.    | (a)   | Draw a well labelled diagram of the bronchial tree of respiratory tract.   | 5                    |
|       | (b)   | Briefly explain any five disorders of Respiratory system.  | 5                    |
|       | (c)   | Define a functional group ? Write the functional groups of any three of the following classes of organic compounds | 5                    |
|       | (i)   | Alcohol  | (ii) Phenol          |
|       | (iii) | Aldehyde   | (iv) Carboxylic acid |
|       | (v)   | Amine  |                      |

3. (a) Discuss water borne diseases caused by single celled organisms. 5
- (b) Draw a well labelled diagram of the section of a human ovary showing various stages of development of eggs and ovulation. 5
- (c) What are the two important methods of extracting phytopharmaceuticals? Describe any two techniques for their isolation and purification. 5
4. Write short notes on *any three* : 5x3=15
- (a) Thyroid Gland and its hormones
- (b) Errors of Refraction of Eye
- (c) STDs
- (d) Cardiac Cycle
- (e) Absorption of food from the GIT
5. Write short notes on *any three* : 5x3=15
- (a) Electrolyte combination therapy
- (b) Physical drug evaluation
- (c) Thalidomide tragedy
- (d) Adulteration of drugs
- (e) Geometrical Isomerism
6. (a) What are enantiomers ? Explain with the help of an example. 5
- (b) What are buffers ? Explain their three characteristics. 5
- (c) What are tissues ? Discuss nervous tissue in detail. 5

7. (a) What are different types of drug interactions ? Describe any one in brief. 5
- (b) Define good lab practices. Give any four functions of the GLP authority. 5
- (c) What are synovial joints ? Describe any four. 5
8. (a) What is meant by SAR ? Discuss its importance in pharmacy. 7
- (b) Define pharmacognacy and explain its scope. 8



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No. of Printed Pages : 3

MVE-001

00115

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

**Term-End Examination**

**June, 2012**

**MVE-001 : INTRODUCTION TO ANATOMY,  
PHYSIOLOGY AND PHARMACEUTICAL  
CHEMISTRY**

*Time : 3 hours*

*Maximum Marks : 75*

*Note : Attempt any five questions.*

- 
1. (a) Describe the glands associated with the digestive system. 5
  - (b) Differentiate between arteries and veins. 5
  - (c) Describe any one mechanism of herbal drug interaction. 5
- 
2. (a) What type of tissue is blood ? Describe any four functions of blood. 5
  - (b) What do you understand by the autonomic nervous system ? Describe this autonomic nervous system. 5
  - (c) Define the term drug. What are the types of drugs ? Give advantages of any one type. 5
3. (a) Discuss any five disorders of the cardiovascular system. 5

- (b) What is mensuration ? Describe the four phases of the menstrual cycle. 5
- (c) What is a pharmacopoeia ? What are the main objectives of Indian pharmacopoeia commission ? 5
4. Write short notes on *any three* of the following : 3x5=15
- (a) Passive Immunization
- (b) Acquired Immuno-Deficiency Syndrome (AIDS)
- (c) Anatomy and physiology of taste buds
- (d) Any two vector borne diseases
5. Write short notes on *any three* : 3x5=15
- (a) Laxatives
- (b) Gastro-intestinal agents
- (c) Physiological acid-base balance
- (d) Synthetic drugs
6. (a) Discuss various reasons for adulteration in herbal drugs. 5
- (b) Discuss the significance of stereochemistry in pharmacy. Give any two examples. 5
- (c) Describe the Adrenal gland and its hormone. 5
7. (a) Describe any two types of quality control tests for tablets. 5
- (b) Discuss about any five chromatography techniques. 5
- (c) Describe with the help of a well labelled diagram the structure of a human kidney. 5

8. (a) What are phyto constituents ? Discuss any three phyto constituents of therapeutic importance. 8
- (b) What are Good Clinical Practices (GCP) ? What are the purposes of trial monitoring ? 7
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No. of Printed Pages : 3

MVE-001

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

**Term-End Examination**

**December, 2012**

**MVE-001 : INTRODUCTION TO ANATOMY,  
PHYSIOLOGY AND PHARMACEUTICAL  
CHEMISTRY**

*Time : 3 hours*

*Maximum Marks : 75*

*Note : Attempt any five questions.*

1. (a) What are the different types of herbal drug formulation. Describe any one of these. 7
- (b) What are parenteral dosage forms. Describe any two of the quality control tests for parenterals. 8
2. (a) What are topical agents ? Give classification of Topical agents and describe any two. 9
- (b) Define a functional group. Name the functional group present in the following compounds (any four). 6
- (i)  $\text{CH}_3\text{CHO}$                       (ii)  $\text{CH}_3\text{COOH}$
- (iii)  $\text{CH}_3\text{OH}$                       (iv) 
- (v)  $\text{CH}_3\text{NH}_2$                       (vi)  $\text{CH}_3\text{NO}_2$

3. (a) Define isomerism. What are the two main types of stereo-isomerism? Give an example for each. 7
- (b) Name any six classes of phytoconstituents and describe any two constituents. 8
4. (a) Define Pharmacopoeia. What are the objectives of Indian Pharmacopoeial commission. 5
- (b) Describe with the help of a well labelled diagram the conduction system of heart. 5
- (c) Define blood and describe with the help of diagrams various types of WBC found in it. 5
5. (a) Define Bronsted Lowry theory for acids and bases giving an example for each. 5
- (b) Give the role of buffers in pharmacy. 5
- (c) What do you mean by antacids? Write down the advantages of combinations. 5
- 
6. (a) Discuss the process of acute inflammation in body as a protective response. 6
- (b) Describe four disorders of cardio vascular system. 4
- (c) What are vector borne diseases? Discuss any two of them. 5
7. (a) Explain with the help of a diagram, how perception of vision takes place. 5

- (b) Describe the hormones secreted from anterior pituitary. 10
8. (a) Give an outline figure showing the various divisions of the nervous system. Describe the autonomic nervous system. 7.5
- (b) Give any four disorders of the joints. 7.5
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No. of Printed Pages : 2

MVE-001

POST GRADUATE DIPLOMA IN  
PHARMACEUTICAL SALES MANAGEMENT  
(PGDPSM)

Term-End Examination

June, 2013

MVE-001 : INTRODUCTION TO ANATOMY,  
PHYSIOLOGY AND PHARMACEUTICAL  
CHEMISTRY

Time : 3 hours

Maximum Marks : 75

Note : Attempt any five questions.

1. (a) Draw a neat sketch of respiratory tract. 5  
(b) What are joints? With the help of diagrams enumerate different types of joints present in the body. 10
2. (a) Name and describe the accessory sex glands of males. 7.5  
(b) Discuss different parts of adrenal gland and its hormones. Name any two diseases caused by the malfunction of the adrenal gland. 7.5
3. Write short notes on any two :  $7\frac{1}{2} \times 2 = 15$ 
  - (a) Sexually Transmitted Diseases
  - (b) Disorders of the cardio vascular system
  - (c) Air borne diseases

4. (a) Arrhenius concept of acids and bases giving an example of each. 5  
(b) Describe intra and extra cellular electrolytes. 5  
(c) Write short note on : 5  
(i) Passive immunization or  
(ii) GLP
5. (a) Write down details of thalidomide tragedy. 5  
(b) Describe anaemia due to iron deficiency. 5  
(c) Define immunity. Describe active immunity in detail. 5
6. (a) Discuss any three quality control tests for tablets. 6  
(b) What is meant by drug evaluation? Write the various techniques of evaluation of crude drugs and describe any one of the techniques. 9
7. (a) Discuss Helsinki declaration. 5  
(b) Define drug. What are the different types of deliberate adulteration? Describe any two types. 10
- 
8. (a) Give chemical tests of any two of the following : 5  
(i) alkaloids (ii) saponins  
(iii) carbohydrate (iv) volatile oil.  
(b) Discuss various methods employed to extract a drug. 5  
(c) Give the importance of SAR in pharmaceutical chemistry. 5

No. of Printed Pages : 2

MVE-001

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

**Term-End Examination**

**December, 2013**

**MVE-001 : INTRODUCTION TO ANATOMY,  
PHYSIOLOGY AND PHARMACEUTICAL  
CHEMISTRY**

*Time : 3 hours*

*Maximum Marks : 75*

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

1. (a) Describe any two physical techniques used for the isolation and purification of phytoconstituents. 5
- (b) What is Contract Research Organisation and what are the purposes of trial monitoring? 5
- (c) Draw a well labelled diagram of the transverse section of the spinal cord. 5
2. (a) Discuss the physiology of urine formation with the help of a diagram. 5
- (b) Describe Thalidomide Tragedy. 5
- (c) List the four different techniques of spectrophotometry and explain any one in brief. 5
3. (a) Write any five principles of Good Clinical Practises. 5
- (b) What is Inflammation ? Describe the four chemical inflammatory mediators. 5
- (c) How do free radicals induce cell injury ? 5

4. (a) Describe any four water borne communicable diseases caused by single celled organisms. 8
- (b) Describe in brief the structure activity relationship (SAR)? Give its importance in pharmaceutical chemistry. 7
5. (a) With the help of a suitable diagram, describe the physiology of vision. 5
- (b) Describe any two quality control tests for parenterals/ injectable dosage forms. 5
- (c) Describe any two disorders of the cardiovascular system. 5
6. Write short notes on any three : 5x3=15
- (a) White Blood Cells.
- (b) Evaluation of suppositories
- (c) Schedule Y of Drugs and Cosmetics Act
- (d) Leukemia
- (e) Good Laboratory Practices(GLP)
7. (a) Differentiate between
- (i) Hypothyroidism and Hyperthyroidism. 5
- (ii) Benign tumours and Malignant tumours.
- (b) Define the term immunity and describe passive immunity. 5
- (c) Describe the mechanisms of herbal - drug interaction. 5
8. (a) What are then advantages of synthetic drugs over the natural sources ? 5
- (b) Give any five techniques employed for evaluation of crude drugs. 5
- (c) Give the classification of topical agents, with examples. 5

No. of Printed Pages : 3

MVE-001

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

00692

**Term-End Examination**

**June, 2014**

**MVE-001 : INTRODUCTION TO ANATOMY,  
PHYSIOLOGY AND PHARMACEUTICAL CHEMISTRY**

*Time : 3 hours*

*Maximum Marks : 75*

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

1. (a) Write the recommendations for carrying out clinical trials in India. 5
- (b) Differentiate between Artery and Vein and draw a well labelled diagram of a section of artery. 5
- (c) Describe in brief Adverse-Drug reaction. 5
2. (a) Describe any five quality control tests for tablets. 5
- (b) Write any five features of Indian Pharmacopoeia Monograph format. 5
- (c) Differentiate between spermatogenesis and oogenesis. Describe any two disorders of male sex organs. 5

MVE-001

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3. (a) What is Myopia ? Explain with the help of a diagram how it can be corrected. 5
- (b) Discuss various immunological formulations. 5
- (c) What are lead compounds ? What is their significance in the preparation of synthetic drugs ? 5
4. (a) Give a well labelled diagram of neuron. Describe the physiological properties of the nerve cell. 5
- (b) What is SAR ? Give its importance in pharmaceutical chemistry. 5
- (c) Describe the composition of blood. 5
5. (a) Discuss the role of buffers in pharmacy. 5
- (b) What do you understand by vector borne diseases ? Describe any two vector borne diseases. 5
- (c) Give the functions and powers of GLP Inspector. 5
6. (a) Describe various methods used for extraction of crude drugs. 5
- (b) Discuss the functions of various glands associated with the stomach for digestion. 5
- (c) What are topical agents ? Describe any two classes of topical agents. 5

7. (a) Describe cell membrane with the help of Fluid Mosaic Model. 5
- (b) What is geometrical isomerism ? Give an example. 5
- (c) Define : 5
- (i) Tidal volume
  - (ii) Vital capacity
  - (iii) Residual volume
  - (iv) Total lung capacity
  - (v) Inspiratory reserve volume

8. Write short notes on any *three* : 5×3=15

- (a) Circulatory circuits of the heart
- (b) Role of free radicals in cell injury
- (c) Optical isomerism
- (d) Tannins and Phenolic compounds as phytoconstituents
- (e) Neoplasms

No. of Printed Pages : 2

**MVE-001**

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

**Term-End Examination**  
**00224 December, 2014**

**MVE-001 : INTRODUCTION TO ANATOMY,  
PHYSIOLOGY AND PHARMACEUTICAL CHEMISTRY**

*Time : 3 hours*

*Maximum Marks : 75*

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

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1. (a) Give two important functions of autorhythmic cells. Describe Cardiac cycle. 8
  - (b) Give any seven principles of G.C.P. 7
  2. (a) What are the modes of transmission of air-borne diseases ? Name any two air-borne diseases. 8
  - (b) Write short note on passive immunisation. 7
  3. (a) Briefly explain any five disorders of the Respiratory system. 7
  - (b) What are buffers ? Explain their three characteristics. 8

4. Write short notes on any **two** of the following :  $2 \times 7 \frac{1}{2} = 15$
- (i) Gonorrhoea
  - (ii) Thalidomide Tragedy
  - (iii) Helsinki Declaration
  - (iv) Thyroid Gland and its hormones
5. (a) What are enantiomers ? Explain with the help of an example. 7
- (b) Explain any **two** of the following :  $2 \times 4 = 8$
- (i) Cathartics
  - (ii) Purgatives
  - (iii) Laxatives
6. (a) Discuss Sterility and Pyrogen test of parenterals. 8
- (b) List any seven functions of GLP Authority. 7
7. (a) Describe with the help of a diagram, the different phases of Menstrual Cycle. 8
- (b) Give the quality control tests of capsules. 7
8. (a) Discuss the GMPs with respect to location and surrounding. 7
- (b) What are antacids ? Write down the requirements of an ideal antacid. 8
-

No. of Printed Pages : 2

MVE-001

00221

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

**Term-End Examination**

**June, 2015**

**MVE-001 : INTRODUCTION TO ANATOMY,  
PHYSIOLOGY AND PHARMACEUTICAL  
CHEMISTRY**

*Time : 3 hours*

*Maximum Marks : 75*

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

- 
- |    |     |   |   |
|----|-----|---|---|
| 1. | (a) | Discuss water borne diseases caused by single celled organisms.   | 8 |
|    | (b) | What are topical agents ? Name the different categories of these agents and describe any one.                                 | 7 |
| 2. | (a) | Briefly describe any four disorders of the digestive system.  | 8 |
|    | (b) | What is QSAR ? Give its importance in Pharmaceutical Chemistry.   | 7 |
| 3. | (a) | Draw a neat labelled diagram of male reproductive system (in side view).  | 7 |
|    | (b) | List the names of different types of techniques used in isolation and purification of drug constituents and describe any two. | 8 |
-

4. (a) Describe the main functions of Nervous System. 7
- (b) Describe the process of acute inflammation in the body as a protective response. 8
5. Write short notes on **any two** :  $7\frac{1}{2} \times 2 = 15$
- (a) STDs (Sexually Transmitted Diseases)
- (b) Pancreas and its hormones
- (c) Adulteration of drugs
- (d) Thalidomide tragedy
6. (a) Draw a well labelled diagram of the section of a human ovary showing various stages of development of eggs and ovulation. 7
- (b) Define isomerism. Describe with the help of an example geometrical isomerism. 8
7. (a) Define pharmacognosy and explain its scope. 7
- (b) Give the common use (as drugs) and possible side effects/drug interactions of any four of the following herbs : 8
- (i) Garlic (ii) Ginger
- (iii) Ginseng (iv) Ephedra
- (v) Ginkgo (vi) Licorice
8. (a) Define good lab practices. Give any six functions of the GLP authority. 8
- (b) What do you understand by synthetic drugs ? Give their advantages and examples. 7

No. of Printed Pages : 3

MVE-001

00052

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

**Term-End Examination**

**December, 2015**

**MVE-001 : INTRODUCTION TO ANATOMY,  
PHYSIOLOGY AND PHARMACEUTICAL  
CHEMISTRY**

*Time : 3 hours*

*Maximum Marks : 75*

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

- 
- |    |     |   |   |
|----|-----|---|---|
| 1. | (a) | List the principles of GLP.                                       | 5 |
|    | (b) | What are the main objectives of Indian Pharmacopoeia commission ? | 5 |
|    | (c) | Define immunity. Briefly describe the types of acquired immunity. | 5 |
| 2. | (a) | Define joints. Describe the different types of synovial joints.   | 5 |
|    | (b) | Briefly describe any five water borne diseases.                   | 5 |
|    | (c) | Discuss the Bronsted - Lowry concept of defining acids and bases. | 5 |
-

3. (a) Define the term 'drugs'. Discuss the significance of drugs obtained from natural products. 5
- (b) List any four physiological ions. What is the role of physiological ions in the body? 5
- (c) What is stereoisomerism? How was it related to the "Thalidomide Tragedy"? 5
4. (a) Define GCP. What is Helsinki Declaration? 5
- (b) How is haemolytic anaemia different from iron deficiency anaemia? Explain with the help of a suitable example. 5
- (c) Discuss the microscopic technique involved in evaluation of crude drugs. 5
5. (a) Describe in brief about sexually transmitted infections. 5
- (b) What is the role of CRO? Specify the purposes of trial monitoring. 5
- (c) Where is the thyroid gland located in the human body? List the hormones secreted by this gland and describe briefly any two disorders associated with its malfunctioning. 5
6. (a) Describe various methods used for extraction of crude drugs. 5
- (b) What is adverse drug reaction? Explain with the help of a suitable example. 5

- (c) Fill in the blanks : 5
- (i) Father of medicine is \_\_\_\_\_.
  - (ii) Essential oils are extracted from \_\_\_\_\_.
  - (iii) In thin layer chromatography, the stationary phase is generally \_\_\_\_\_ supported over glass or aluminium plates.
  - (iv) Carbohydrates consist of carbon, hydrogen and oxygen in which the ratio of hydrogen to the oxygen is \_\_\_\_\_.
  - (v) The visible range in the electromagnetic spectrum lies between \_\_\_\_\_ nm and \_\_\_\_\_ nm.

7. (a) What is meant by SAR ? Discuss the main aims of SAR. 5
- (b) Differentiate between Myopia and Hypermetropia. 5
- (c) Discuss various types of chronic inflammation. 5

8. Write short notes on **any three** : 5x3=15
- (a) Herbal cosmetics
  - (b) Antacids
  - (c) Drug - nutrient interaction
  - (d) Scope of pharmacognosy
  - (e) Neoplasms
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No. of Printed Pages : 2

MVE-001

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

**Term-End Examination**

**June, 2016**

**MVE-001 : INTRODUCTION TO ANATOMY,  
PHYSIOLOGY AND PHARMACEUTICAL  
CHEMISTRY**

*Time : 3 hours*

*Maximum Marks : 75*

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

- |    |     |   |   |
|----|-----|---|---|
| 1. | (a) | Describe the three types of muscle tissues.   | 9 |
|    | (b) | Explain the functions of nervous system.  | 6 |
| 2. | (a) | Describe the physiology of mensuration.   | 6 |
|    | (b) | Explain any three types of cellular adaptations due to cell injury giving examples. | 9 |
| 3. | (a) | List the disorders of urinary system and describe any two.                          | 8 |
|    | (b) | Differentiate between Leucopenia and Leukemia.                                      | 7 |
| 4. | (a) | Define topical agents. Describe the various classes of topical agents.              | 9 |

- (b) Define functional groups of organic compounds. Give the functional groups of any four of the following classes : 6
- (i) Alcohol
  - (ii) Phenol
  - (iii) Aldehyde
  - (iv) Carboxylic acid
  - (v) Ether
  - (vi) Halide
5. (a) Explain the concept of Structure Activity Relationship (SAR) and discuss its importance. 7
- (b) Briefly describe any four methods of isolation and purification of constituents from the crude drug. 8
6. (a) What is meant by Drug Interaction? Giving examples briefly describe any two types of drug interactions. 8
- (b) Explain the concept of Pharmacopoeia and write the main objectives of Indian Pharmacopoeia Commission. 7
- 
7. (a) Define Good Clinical Practice (GCP). Briefly explain any three main principles of GCP. 8
- (b) Draw a labelled diagram of a section of an artery showing its layers. 7
8. Write notes on **any three** of the following : 3x5=15
- (a) Cell membrane
  - (b) External and internal respiration
  - (c) Cathartics
  - (d) Adulteration of drug
  - (e) Quality control test of capsules
-

No. of Printed Pages : 3

MVE-001

POST GRADUATE DIPLOMA IN  
PHARMACEUTICAL SALES MANAGEMENT  
(PGDPSM)

Term-End Examination

December, 2016

MVE-001 : INTRODUCTION TO ANATOMY,  
PHYSIOLOGY AND PHARMACEUTICAL  
CHEMISTRY

Time : 3 hours

Maximum Marks : 75

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

- 
- |    |     |  |   |
|----|-----|--|---|
| 1. | (a) | Describe the composition of blood.   | 7 |
|    | (b) | What are the different types of neurons ?<br>Briefly explain physiological properties of<br>the nerve. | 8 |
- 
- |    |     |  |   |
|----|-----|--|---|
| 2. | (a) | Give the location of Pancreas and describe<br>the functions of pancreas. | 6 |
|    | (b) | Explain the process of acute inflammation.                               | 9 |
- 
- |    |     |  |   |
|----|-----|--|---|
| 3. | (a) | Discuss any one disorder of each of<br>digestive system, respiratory system and<br>nervous system. | 9 |
|    | (b) | Compare between innate and acquired<br>immunity.   | 6 |

4. (a) List major physiological ions and write functions of any four in the human body. 7
- (b) Describe geometrical or optical isomerism, and give two examples. 8
5. (a) How are synthetic drugs advantageous over drugs from natural products ? 5
- (b) Give the classification of phytoconstituents of therapeutic importance giving one example of each class. 10
6. (a) What is Drug Evaluation ? Describe physical evaluation of drugs. 8
- (b) What is meant by quality control of pharmaceuticals ? Describe any two quality control tests for tablets. 7
- 
7. (a) Discuss any three features for good manufacturing practices. 9
- (b) Write short notes **any two** of the following : 6
- (i) Blood pressure
- (ii) Buffers
- (iii) Herbal medicines (citing two examples.)

8. (a) What is thalidomide tragedy ? Describe in brief. 9
- (b) Write the structure of **any three** of the following compounds : 6
- (i) Chlorobenzene
  - (ii) Toluene
  - (iii) Naphthalene
  - (iv) Butyl benzene
  - (v) Ortho-bromophenol



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No. of Printed Pages : 3

MVE-001

00503  
**POST GRADUATE DIPLOMA IN  
PHARMACEUTICAL SALES MANAGEMENT  
(PGDPSM)**

**Term-End Examination**

**June, 2017**

**MVE-001 : INTRODUCTION TO ANATOMY,  
PHYSIOLOGY AND PHARMACEUTICAL  
CHEMISTRY**

*Time : 3 hours*

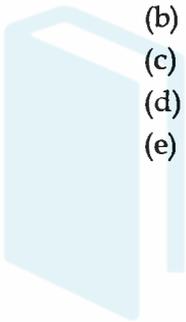
*Maximum Marks : 75*

**Note :** (i) *Attempt any five questions.*  
(ii) *All questions carry equal marks.*

- 
- |    |     |  |   |
|----|-----|--|---|
| 1. | (a) | Describe the various parameters used for quality control test of capsules. | 5 |
|    | (b) | List the types of drug interaction. Describe any one of them.              | 5 |
|    | (c) | Describe the anatomy of eye with the help of a diagram.                    | 5 |
| 2. | (a) | Draw a well labelled diagram of the nephron.                               | 5 |
|    | (b) | Describe various methods used for the extraction of crude drugs.           | 5 |
|    | (c) | What are the functions of GLP inspectors ?                                 | 5 |
| 3. | (a) | List the various disorders of blood. Discuss anaemia in detail.            | 5 |
|    | (b) | Discuss quality assurance and quality control with reference to GMP.       | 5 |
|    | (c) | Define and classify topical agents.  | 5 |

4. (a) Define a buffer solution and describe the role of buffers in pharmacy. 5
- (b) Differentiate between Osteoporosis and Osteomalacia. 5
- (c) List the important points to be kept in mind while selecting International Nonproprietary names. 5
5. (a) What is the basic unit of the nervous system? Describe its structure with the help of a diagram. 5
- (b) Briefly describe the cardiac cycle and any two diseases of the heart. 5
- (c) Give some common uses and possible side effects of any two of the following : 5
- (i) Ephedra
- (ii) Garlic
- (iii) Ginkgo
6. (a) Mention the main objectives of Indian Pharmacopoeia commission. 5
- (b) List the principles of GLP. 5
- (c) Explain the following in two/three 5x1 sentences : 5x1
- (i) Colour Blindness
- (ii) Night blindness
- (iii) Gastritis
- (iv) Pneumonia
- (v) Amenorrhoea

7. (a) Give the chemical tests for the detection of **any two** of the following : 5
- (i) alkaloids, and
  - (ii) saponins
  - (iii) oils and fats
  - (iv) carbohydrates
- (b) Describe any two vector borne diseases. 5
- (c) Briefly describe the process of acute inflammation. 5
8. Write short notes on **any three** : 5x3
- (a) Paper chromatography.
  - (b) Schedule of Drugs and Cosmetics Act.
  - (c) Hepatitis.
  - (d) Scope of pharmacognosy.
  - (e) Geometrical isomerism.



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No. of Printed Pages : 2

MVE-001

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

**Term-End Examination**

**December, 2017**

**MVE-001 : INTRODUCTION TO ANATOMY,  
PHYSIOLOGY AND PHARMACEUTICAL  
CHEMISTRY**

*Time : 3 hours*

*Maximum Marks : 75*

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

*(ii) All questions carry equal marks.*

- 
1. (a) Describe cell membrane with the help of Fluid Mosaic Model. 5
  - (b) What are topical agents in medicine ? Describe any two classes of topical agents. 5
  - (c) Define G.C.P. Give any four principles of G.C.P. 5
- 
2. (a) Describe different phases of Menstrual cycle. 10
  - (b) Define a buffer solution. Discuss its role in pharmaceutical sciences. 5
3. (a) Differentiate between Synthetic drugs and the drugs obtained from natural products. List three advantages of synthetic drugs over the drugs from natural sources. 5
  - (b) Describe briefly Adverse Drug reaction. 5
  - (c) Differentiate between spermatogenesis and oogenesis. 5

00043

4. (a) Discuss "Helsinki Declaration". 10  
(b) Describe the importance of SAR in pharmaceutical chemistry. 5
5. (a) Describe the physiology of vision with the help of suitable diagram. 10  
(b) Describe any two physical techniques used for the isolation and purification of phytoconstituents. 5
6. (a) What is the composition of Institutional Review Board/Independent Ethics Committee? 5  
(b) Define Cathartics and laxatives. Give any two mechanisms by which these compounds act. 5  
(c) Differentiate between : 5  
(i) Benign and Malignant tumours.  
(ii) Configurational and Conformational isomerism.
7. (a) Describe the composition of blood. 10  
(b) Discuss any two quality control test for tablets. 5
- 
8. Write short notes on any three : 5x3=15  
(a) Sexually Transmitted Diseases.  
(b) Adrenal gland and its hormones.  
(c) Air borne diseases.  
(d) Role of free radicals in cell injury.  
(e) Passive immunization.

No. of Printed Pages : 3

MVE-001

POST GRADUATE DIPLOMA IN  
PHARMACEUTICAL SALES MANAGEMENT  
(PGDPSM)

Term-End Examination

June, 2018

MVE-001 : INTRODUCTION TO ANATOMY,  
PHYSIOLOGY AND PHARMACEUTICAL  
CHEMISTRY

Time : 3 hours

Maximum Marks : 75

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

(ii) All questions carry equal marks.

- 
1. (a) Write any five features of Indian Pharmacopoeia monograph format. 5
- (b) What do you understand by vector borne diseases? Describe in brief any two of them. 5
- (c) What are enantiomers? Explain with the help of an example. 5
- 
2. (a) What are antacids? Write down the requirements of an ideal antacid. 5
- (b) Name and describe accessory sex glands of males. 10
- 
3. (a) Discuss any three quality control tests for tablets. 10
- (b) Describe any three disorders of cardiovascular system. 5

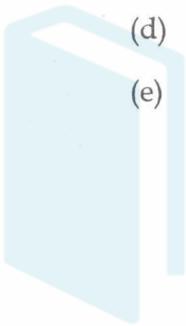
MVE-001

1

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4. (a) What is CRO ? What are the purposes of trial monitoring ? 5
- (b) Describe the mechanisms of Herbal - Drug interaction. 10
5. (a) Discuss various methods employed to extract a drug. 5
- (b) Define immunity. Describe active immunity. 5
- (c) Explain the Arrhenius concept of acid and base giving suitable example. 5
6. (a) Draw a well labelled diagram of neuron. Describe the physiological properties of the nerve cells. 5
- (b) What are lead compounds ? What is their significance in the preparation of synthetic drugs ? 5
- (c) Fill in the blanks : 1x5=5
- (i) The ovarian structure in which mature ovum is contained is known as \_\_\_\_\_.
- (ii) Hypo secretion of the growth hormone during childhood leads to \_\_\_\_\_.
- (iii) The photosensitive pigments present in the eye are \_\_\_\_\_ and \_\_\_\_\_.
- (iv) The two arms of the ANS are \_\_\_\_\_ and \_\_\_\_\_.
- (v) Shoulder joint is an example of \_\_\_\_\_.

7. (a) Briefly explain any five disorders of the Respiratory system. 5
- (b) Describe Thalidomide Tragedy. 5
- (c) Write any five principles of Good Clinical Practices. 5
8. Write short notes on any three : 5x3=15
- (a) Disorders of Joints
- (b) Significance of SAR
- (c) Herbal Cosmetics
- (d) Leukemia
- (e) Optical Isomerism



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No. of Printed Pages : 2

MVE-001

00892

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

**Term-End Examination**

**December, 2018**

**MVE-001 : INTRODUCTION TO ANATOMY,  
PHYSIOLOGY AND PHARMACEUTICAL  
CHEMISTRY**

*Time : 3 hours*

*Maximum Marks : 75*

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

*(ii) All questions carry equal marks.*

- 
- |    |     |   |   |
|----|-----|---|---|
| 1. | (a) | Explain synthetic drugs with the help of suitable examples and give its advantages.   | 7 |
|    | (b) | Describe thyroid gland and diseases arising from dysfunctioning of the thyroid gland. | 8 |
- 
- |    |     |  |   |
|----|-----|--|---|
| 2. | (a) | Describe any four techniques employed for isolation and purification of phytoconstituents. | 8 |
|    | (b) | Draw a well labelled diagram of the anatomy of the eye.                                    | 7 |
- 
- |    |     |   |   |
|----|-----|---|---|
| 3. | (a) | What is leukaemia ? Describe its types. | 7 |
|    | (b) | Discuss any two air-borne diseases.     | 8 |

4. (a) Describe any four types of deliberate adulteration of herbal drugs. 8  
(b) Differentiate between : 7  
(i) Constipation and Diarrhoea  
(ii) Benign and Malignant Tumours
5. (a) Give the functional groups of any four of the following : 8  
(i) Phenol (ii) Ether  
(iii) Ketone (iv) Alkene  
(v) Aromatic compounds  
(b) Write a brief note on "Free Radicals" in cell injury. 7
6. (a) What are the important functions of blood ? 7  
(b) Give the full form of any four of the following : 8  
(i) OECD (ii) SOP (iii) IEC  
(iv) CRO (v) GLP
7. (a) Discuss optical isomerism with suitable example. 7  
(b) Explain any four of the following in the two/ three sentences : 8  
(i) Ghritas  
(ii) Araks(Distillate)  
(iii) Rasas  
(iv) Asavas(Fermented Preparations)  
(v) Gutikas/Vati
8. Write short notes on any three : 3x5=15  
(a) Inflammation  
(b) Active Immunization  
(c) Thalidomide Tragedy  
(d) Quality control test for tablets  
(e) Malaria

No. of Printed Pages : 3

MVE-001

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

**00954 Term-End Examination  
June, 2019**

**MVE-001 : INTRODUCTION TO ANATOMY,  
PHYSIOLOGY AND PHARMACEUTICAL CHEMISTRY**

*Time : 3 hours*

*Maximum Marks : 75*

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

- 
1. (a) Write any seven principles of Good Clinical Practices (GCP). 7
- (b) Differentiate between any four disorders of the cardiovascular system. 8
2. (a) Give the chemical tests for the detection of any **four** of the following : 8
- (i) Carbohydrates
  - (ii) Oils and Fats
  - (iii) Saponins
  - (iv) Phenolic Compounds
  - (v) Volatile Oils
  - (vi) Gums

- (b) What are antacids ? Write any five characteristics required for an ideal antacid. 7
3. (a) Draw a well-labelled diagram of a human heart. 7
- (b) Discuss any two water borne diseases caused by single cell organisms. 8
4. (a) List the three types of drug interactions and describe any one. 7
- (b) Differentiate between the following : 8
- (i) Cataract and Glaucoma
- (ii) Colour blindness and Night blindness
5. (a) Describe the quality control tests for capsules. 7
- (b) Give the functional groups of any *four* of the following : 8
- (i) Alcohol
- (ii) Aldehyde
- (iii) Halide
- (iv) Ether
- (v) Carboxylic acid
6. (a) Describe the composition of blood. 8
- (b) With the help of suitable examples, discuss the Arrhenius concept of acids and bases. 7

7. (a) Discuss geometrical isomerism with suitable examples. 7
- (b) Discuss any two disorders associated with male sex organs. 8
8. Write short notes on any *three* of the following :  $3 \times 5 = 15$
- (a) Passive Immunization
- (b) Cell Injury
- (c) Powers and Functions of GLP Authority
- (d) Cell Membrane
- (e) Dengue

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MVE-001

POST GRADUATE DIPLOMA IN PHARMACEUTICAL SALES MANAGEMENT  
(PGDPSM)

Term-End Examination

December, 2019

MVE-001 : INTRODUCTION TO ANATOMY, PHYSIOLOGY AND  
PHARMACEUTICAL CHEMISTRY

Time : 3 hours

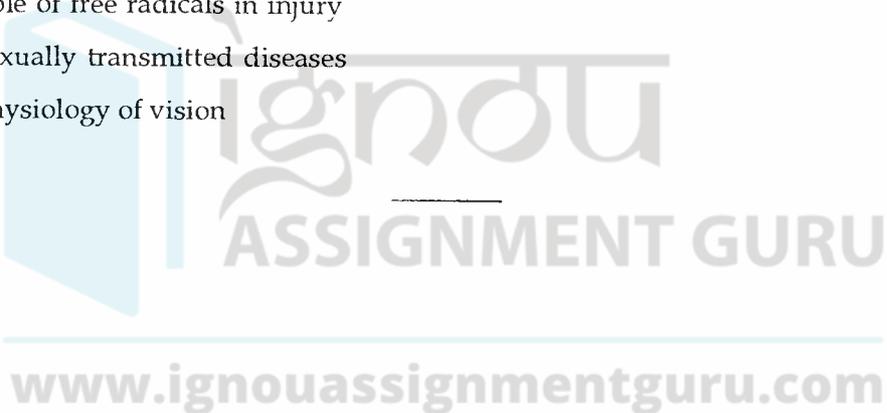
Maximum Marks : 75

Note : (i) Attempt any five questions.

(ii) All questions carry equal marks.

1. (a) List the four different techniques of spectrophotometry and describe any two. 8  
(b) What is GLP ? In the context of GLP describe the following : 7
  - (i) QAP (Quality Assurance Programme)
  - (ii) SOP's (Standard Operating Procedures)
2. (a) Draw the structure of a neuron and describe the functions of the Nervous System. 8  
(b) What is CRO and what are the purposes of trial monitoring ? 7
3. (a) Differentiate between : 8
  - (i) Spermatogenesis and oogenesis.
  - (ii) Configurational and conformational isomerism.  
(b) List the different types of deliberate adulterations and describe any two types. 7
4. (a) Describe cell membrane with the help of fluid mosaic model. 7  
(b) What are topical agents ? Describe any two classes of topical agents. 8
5. (a) Elaborate the terms SAR and QSAR. Write the importance of SAR in pharmaceutical chemistry. 8  
(b) Describe the diseases arising from the dysfunctioning of the thyroid gland. 7

6. (a) Give the functional groups of any seven of the following : 7
- |              |                |                       |
|--------------|----------------|-----------------------|
| (i) Alkene   | (ii) Ether     | (iii) Carboxylic acid |
| (iv) Amine   | (v) Nitro      | (vi) Aldehyde         |
| (vii) Phenol | (viii) Alcohol | (ix) Ester            |
- (b) Describe any four disorders of the Respiratory System. 8
7. (a) What is immunity ? List its types and describe any one type in brief. 8
- (b) List the quality control tests for 'parenterals' and describe any two in brief. 7
8. Write short notes on any three : 3x5=15
- (a) Cardiac Cycle
  - (b) Schedule Y of Drugs and Cosmetics Act
  - (c) Role of free radicals in injury
  - (d) Sexually transmitted diseases
  - (e) Physiology of vision



No. of Printed Pages : 4

**MVE-001**

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

**Term-End Examination**

**June, 2020**

**MVE-001 : INTRODUCTION TO ANATOMY,  
PHYSIOLOGY AND PHARMACEUTICAL  
CHEMISTRY**

*Time : 3 Hours*

*Maximum Marks : 75*

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

*(ii) All questions carry equal marks.*

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1. (a) Draw the structure of a neuron and briefly describe its physiological properties. 8
- (b) Describe the mechanisms of action of Cathartics, Purgatives and Laxatives. 7
2. (a) Describe the diseases arising from dysfunctioning of the pancreas. 8

**P. T. O.**

[ 2 ]

MVE-001

- (b) Define 'drug'. What is meant by the 'activity' of a drug ? 7
3. (a) Describe any *two* disorders of the digestive system. 8
- (b) Describe any *four* physiological ions in the body. 7
4. (a) Differentiate between the following : 8
- (i) Geometrical and Optical isomerism
- (ii) Glaucoma and Cataract
- (b) What are the various modes for transmission of water-borne diseases ?
- Discuss any *two* water-borne diseases. 7
5. (a) Describe the different types of joints found in the human body. 7
- (b) Describe any *four* groups of phytoconstituents of medicinal importance. 8
6. (a) Write the chemical structures of any *four* of the following : 2 each
- (i) Chlorobenzene

[ 3 ]

MVE-001

- (ii) Propyl benzene
- (iii) Phenyl ethanol
- (iv) Naphthalene
- (v) 3-Nitro-pyridine
- (vi) 1, 2-dimethyl benzene

(b) Define any *four* of the following in two/three sentences : 7

- (i) Antacids
- (ii) Astringents
- (iii) Caustics
- (iv) Buffer
- (v) Emollients
- (vi) Toxoids

7. (a) Describe the Bronsted-Lowry concept of acids and bases giving suitable example. 7
- (b) Name various parameters used in physical methods of drug evaluation. 8

[ 4 ]

MVE-001

8. Write short notes on any *three* of the following : 5 each

- (i) Herbal Drug Interaction
- (ii) Acquired immunity
- (iii) Disorders of male sex organs
- (iv) Chromatography
- (v) AIDS

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No. of Printed Pages : 3

**MVE-001**

**POST GRADUATE DIPLOMA IN  
PHARMACEUTICAL SALES  
MANAGEMENT (P. G. D. P. S. M.)**

**Term-End Examination**

**December, 2020**

**MVE-001 : INTRODUCTION TO ANATOMY,  
PHYSIOLOGY AND PHARMACEUTICAL  
CHEMISTRY**

*Time : 3 Hours*

*Maximum Marks : 75*

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

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1. (a) Describe geometrical or optical isomerism and give *two* examples. 7
- (b) Describe cell membrane with the help of "Fluid Mosaic Model". 8
2. (a) Describe briefly the cardiac cycle and name any *four* diseases of the heart. 8
- (b) Explain GLP and list any *five* principles of GLP. 7

3. (a) Define buffer solution and describe its significance in pharmacy. 7
- (b) Differentiate between the following : 8
- (i) Hypothyroidism and hyperthyroidism
- (ii) Arteries and veins
4. (a) List the disorders of the urinary system and describe any *one*. 7
- (b) Describe the physiology of menstruation. 8
5. (a) Describe the types of neurons that form the nervous system. 8
- (b) Describe Thalidomide tragedy. 7
- 
6. (a) List the quality control tests for tablet forms and describe any *two* tests. 7
- (b) What are the various modes of transmission of air borne diseases ? Describe pneumonia as an air borne disease. 8
7. (a) Define Pharmacognosy and explain its scope. 7

[ 3 ]

- (b) Explain any *two* of the following : 8
- (i) Bronsted and Lowry concept of acid and base
  - (ii) Lewis acid-base
  - (iii) Arrhenius acids and bases

8. Write short notes on any *three* of the following :

5×3=15

- (a) Synthetic drugs
- (b) Passive immunisation
- (c) Cell injury
- (d) Myopia
- (e) Drug adulteration

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