

B.Pharm I Year I Semester (R19) Supplementary Examinations September 2022

HUMAN ANATOMY & PHYSIOLOGY – I

(For 2019, 2020 & 2021 admitted batches only)

Time: 3 hours

Max. Marks: 75

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- | | |
|--|----|
| (a) Write short note on homeostasis. | 2M |
| (b) What are the functions of rough endoplasmic reticulum? | 2M |
| (c) What are the functions of the bone? | 2M |
| (d) Write in brief on ball and socket joint. | 2M |
| (e) Give the composition and functions of the blood. | 2M |
| (f) Explain haemophilia. | 2M |
| (g) Write the functions of sympathetic nervous system. | 2M |
| (h) Draw the structure of nose. | 2M |
| (i) Write a note on E.C.G. | 2M |
| (j) Define hypertension. | 2M |

PART – B

(Answer any two questions: 02 X 10 = 20 Marks)

- | | |
|---|----|
| 2 (a) Explain tissue level organization. | 5M |
| (b) Explain structure and functional classification of joints. | 5M |
| 3 (a) Write the composition and function of blood. | 5M |
| (b) Explain the blood grouping. | 5M |
| 4 (a) Write the differences between sympathetic and parasympathetic nervous system. | 5M |
| (b) Explain the physiology of vision. | 5M |

PART – C

(Answer any seven questions: 07 X 05 = 35 Marks)

- | | |
|--|------|
| 5 (a) Discuss in brief the homeostatic mechanism. | 2.5M |
| (b) Explain the structure and function of connective tissue. | 2.5M |
| 6 (a) Classify the bones with suitable examples. | 2.5M |
| (b) Write a note on functions of neuro muscular junction. | 2.5M |
| 7 (a) Explain different types of anaemia. | 2.5M |
| (b) Write about the functions of lymphatic system. | 2.5M |
| 8 (a) Draw the structure of ear. | 2.5M |
| (b) Explain the functions of cranial nerves. | 2.5M |

Contd. in page 2

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|----|-----|---|------|
| 9 | (a) | With neat labelled diagram and explain the anatomy of heart. | 2.5M |
| | (b) | Explain in detail about cardiac cycle. | 2.5M |
| 10 | (a) | Describe the structure and functions of muscular system. | 2.5M |
| | (b) | Discuss in brief homeostatic mechanism. | 2.5M |
| 11 | (a) | What is the composition of skeleton? | 2.5M |
| | (b) | Describe the types and movements of joints. | 2.5M |
| 12 | (a) | Write a note on 'ABO' system of blood grouping. | 2.5M |
| | (b) | Give the basic physiology and functions of spleen. | 2.5M |
| 13 | (a) | Explain the structure and functions of tongue with neat labelled diagram. | 2.5M |
| | (b) | What is the importance of Resin Angiotensin Aldosterone system? | 2.5M |

B.Pharm I Year I Semester (R19) Regular Examinations July 2022

HUMAN ANATOMY & PHYSIOLOGY – I

(For 2021 admitted batches only)

Time: 3 hours

Max. Marks: 75

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- | | |
|---|----|
| (a) Write the functions of ribosomes. | 2M |
| (b) Write a note on nervous tissue. | 2M |
| (c) Name the facial bones. | 2M |
| (d) Write about the functions of skin. | 2M |
| (e) What are the functions of platelets? | 2M |
| (f) Give brief note on serum protein. | 2M |
| (g) Mention the origin of parasympathetic nerves. | 2M |
| (h) Explain the functions of spinal nerves. | 2M |
| (i) Give the factor involved in regulation of blood pressure. | 2M |
| (j) What is the congestive heart failure? | 2M |

PART – B

(Answer any two questions: 02 X 10 = 20 Marks)

- | | |
|---|----|
| 2 (a) Explain the general principles of cell communication. | 5M |
| (b) Describe the structure and functions of muscular tissue. | 5M |
| 3 (a) Explain the physiology of skeletal muscle contraction. | 5M |
| (b) Write the differences between compact and spongy bones. | 5M |
| 4 (a) Write a note on erythropoiesis. | 5M |
| (b) Mention various components of conductive system of heart. | 5M |

PART – C

(Answer any seven questions: 07 X 05 = 35 Marks)

- | | |
|---|----|
| 5 Write about: | 5M |
| (a) Mitosis and its significance. | |
| (b) Structure and functions of muscular tissue. | |
| 6 Write in detail about: | 5M |
| (a) Mechanism of coagulation. | |
| (b) Life cycle of RBC. | |
| 7 Write short notes on: | 5M |
| (a) Structure of ear. | |
| (b) Innervations of parasympathetic nervous system. | |

Contd. in page 2

- 8 Explain about: 5M
(a) Important of renin-angiotensin aldosterone pathway.
(b) Classification, structure and functions of arteries.
- 9 Write a brief note on: 5M
(a) The process of cell division.
(b) Ball and socket joint.
- 10 Write about the: 5M
(a) Classification, structure and functions of epithelial tissues.
(b) Structure and functions of mitochondria with a neat labelled diagram.
- 11 Give an account on: 5M
(a) Functions of skin.
(b) Functional classification of joints.
- 12 Explain in detail about: 5M
(a) Blood vessels.
(b) Different types of anemias.
- 13 Briefly discuss about: 5M
(a) Physiology vision.
(b) Cardiac cycle.

B.Pharm I Year I Semester (R19) Supplementary Examinations April/May 2022

HUMAN ANATOMY & PHYSIOLOGY – I

(For 2019 & 2020 admitted batches only)

Time: 3 hours

Max. Marks: 75

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Write the scope of anatomy and physiology.
 - (b) Write note on contact dependent signaling.
 - (c) Draw a neat labelled diagram of skin.
 - (d) List out the types of bones with examples.
 - (e) Write the composition of blood.
 - (f) Enlist the disorders related to blood.
 - (g) Draw a neat labelled diagram of tongue with special emphasis on taste buds.
 - (h) Write the classification of nervous system.
 - (i) Draw a neat labelled diagram of heart.
 - (j) Enlist the disorders related to CVS.

PART – B

(Answer any two questions: 02 X 10 = 20 Marks)

- 2 (a) Describe the cardiac cycle.
- (b) Explain the short term and long term regulation of blood pressure.
- 3 (a) Explain the physiology of hearing.
- (b) Write the functions of parasympathetic nervous system.
- 4 (a) Write about the transport across the cell membrane.
- (b) Write about the intracellular signaling.

PART – C

(Answer any seven questions: 07 X 05 = 35 Marks)

- 5 Write the functions of the cell.
- 6 Write the functions of the skin.
- 7 Explain the physiology of muscle contraction.
- 8 Explain the mechanism of coagulation.
- 9 Write about the disorders of eye.
- 10 Write about the conduction system in heart.
- 11 Enlist the functions of lymphatic system.
- 12 Write the functions of the sympathetic nervous system.
- 13 Write note on cell division.

B.Pharm I Year I Semester (R19) Regular & Supplementary Examinations August/September 2021
HUMAN ANATOMY & PHYSIOLOGY – I

Time: 3 hours

Max. Marks: 75

PART – A
(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Define homeostasis.
 - (b) What is cell division?
 - (c) Mention the different parts of skin.
 - (d) Write the different types of joint.
 - (e) Write the function of blood?
 - (f) Write different types of anaemia.
 - (g) Give the function of spinal cord.
 - (h) Define the peripheral nervous system.
 - (i) Define cardiac cycle.
 - (j) What is ECG?

PART – B
(Answer any two questions: 02 X 10 = 20 Marks)

- 2 Explain the structure and function of heart.
- 3 Write the structure and function of ear.
- 4 Write the structure and function of skin.

PART – C
(Answer any seven questions: 07 X 05 = 35 Marks)

- 5 Write about the general principles of cell communication and intracellular signaling pathway.
- 6 Write the structure and function of epithelial tissue.
- 7 Write the salient features and functions of bones of axial skeletal system.
- 8 Write short notes on different synovial joints of the body.
- 9 Write about the formation of haemoglobin and types of anaemia.
- 10 Explain about Lymph organs and tissues.
- 11 Write about the difference between sympathetic and parasympathetic nervous system.
- 12 Explain about the blood vessels and blood circulation of heart.
- 13 Write about the regulation of blood pressure and disorders of heart.

HUMAN ANATOMY & PHYSIOLOGY – I

Time: 3 hours

Max. Marks: 75

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Write the function of cell.
 - (b) Write the function of connective tissue.
 - (c) What is neuromuscular junction?
 - (d) Enumerate the bones present in axial system.
 - (e) Write the composition of blood.
 - (f) List the disease for the blood disorder.
 - (g) Short list the function of ANS.
 - (h) What is taste buds?
 - (i) Write disorders of heart.
 - (j) What is systolic and diastolic?

PART – B

(Answer any two questions: 02 X 10 = 20 Marks)

- 2 Classify the tissues and write the structure and function of any two tissues.
- 3 Discuss about the mechanisms of coagulation and blood grouping.
- 4 Write about the structure and function of eye.

PART – C

(Answer any seven questions: 07 X 05 = 35 Marks)

- 5 Write short notes on basic life processes and homeostasis.
- 6 Write about the physiology of muscle contraction.
- 7 Explain about the types of joints movements and its articulation.
- 8 Write short notes on RBC and WBC.
- 9 Write about function and disorder of blood.
- 10 Write the functions of spinal and cranial nerves.
- 11 Explain about the cardiac output and cardiac cycle.
- 12 Write about the conduction system of heart and heart beat.
- 13 Write about various cell stage of cell division.

HUMAN ANATOMY & PHYSIOLOGY – I

Time: 3 hours

Max. Marks: 75

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Explain the types of cell division.
 - (b) Discuss the functions of epithelial tissue.
 - (c) Explain the different layers of the skin.
 - (d) What are the types of bones?
 - (e) Describe the functions of haemoglobin.
 - (f) Write a note on the formation of lymph.
 - (g) What are the receptors for noradrenaline?
 - (h) Explain the functions of nose.
 - (i) What are the structural differences between vein and artery?
 - (j) What is a cardiac output?

PART – B

(Answer any two questions: 02 X 10 = 20 Marks)

- 2 (a) Write a note on the general principles of cell communication.
(b) Describe the structure and functions of nervous tissue.
- 3 (a) Describe the structure of cell membrane and transport across the cell membrane.
(b) Write a note on the types of connective tissue and their functions.
- 4 (a) Write a note on division of skeleton system. Describe the salient features and functions of bones.
(b) Write a note on the structure and functions of neuromuscular junction.

PART – C

(Answer any seven questions: 07 X 05 = 35 Marks)

- 5 (a) Write a note on the types of joints and their movements.
(b) Explain the physiological functions of skin.
- 6 (a) Write a note on the reticular activating system.
(b) Write a note on formation and circulation of lymph.
- 7 (a) Write a note on hemopoiesis and disorders associated with hemopoiesis.
(b) Write a note on blood transfusion and its significance.
- 8 (a) Describe the origin and functions of parasympathetic nervous system.
(b) Write a note on the physiological disorders of eye.
- 9 (a) Explain the structure and functions of ear.
(b) Write the functions of spinal nervous.

Contd. in page 2

- 10 (a) Write a note on the circulation of blood in the heart.
(b) Write a note on the disorders of heart.

- 11 (a) Describe the conducting system of heart.
(b) Write a note on the disorders of blood vessels.

- 12 (a) Write a note on types of epithelial tissues.
(b) Differentiate between appendicular and axial skeleton.

- 13 (a) Describe the functions of ECG.
(b) Write a note on the coronary circulation.

B.Pharm I Year I Semester (R19) Regular Examinations February 2020
HUMAN ANATOMY & PHYSIOLOGY – I

Time: 3 hours

Max. Marks: 75

PART – A
(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Write a note on homeostasis.
 - (b) What are the different types of tissues? Give one example for each.
 - (c) What are the divisions of skeleton system?
 - (d) What are the functions of neuromuscular junction?
 - (e) Write a note on formation of haemoglobin.
 - (f) Explain the functions of lymph nodes.
 - (g) What are the receptors for acetylcholine?
 - (h) Explain the functions of tongue.
 - (i) Write the events of cardiac cycle.
 - (j) Explain the blood circulation through heart.

PART – B
(Answer any two questions: 02 X 10 = 20 Marks)

- 2 (a) Write a note on the intracellular signaling pathways.
(b) Describe the structure and functions of muscular tissue.
- 3 (a) Describe the structure and components of a cell. Explain the functions of each component.
(b) What are the types and subtypes of epithelial tissue? Describe their functions.
- 4 (a) Describe in detail the structure and functions of skin.
(b) Write a note on the types of bones and their functions.

PART – C
(Answer any seven questions: 07 X 05 = 35 Marks)

- 5 Write a note on the structural and functional classification of joints.
- 6 Write a note on composition and functions of blood.
- 7 Write on the lymphatic vessels and circulation of lymph.
- 8 Describe the structure and functions of sympathetic nervous system.
- 9 (a) Explain the structure and functions of nose.
(b) Write the functions of cranial nervous.
- 10 Write a note on the origin and functions of heart. Add a note on the functions of valves in the heart.
- 11 Describe the mechanisms of blood pressure regulation.
- 12 Write a note on functions of Reticuloendothelial system.
- 13 Describe the types of connective tissue & their functions.
