Printed Pages: 01 Sub Code: BP101T

Paper Id: 150101 Roll No. | | | | | | | | | | |

B PHARM
(SEM- 1) THEORY EXAMINATION 2018-19
HUMAN ANATOMY AND PHYSIOLOGY

Time: 3 Hours *Total Marks: 75*

SECTION A

1. Attempt *all* questions in brief. **10 x 2 = 20**

a. Explain the term autocrine and juxtacrine signaling.

b. Name the gland which secretes wax in the ear.

c. What is hemoglobin? What are its normal values in humans and write about its importance in human body?

d. What is the difference between endocrine and exocrine gland?

e. Define autophagy and autolysis.

f. Write any two functions of Ribosome.

g. Differentiate between thick and thin filament.

h. Name the largest nerve of human body.

i. What do you mean by Heart rate?

j. Write the primary neurotransmitters of sympathetic and parasympathetic nervous system.

SECTION B

2. Attempt any *two* parts of the following: **2 x 10 = 20**

a. Define Hemostasis. Explain in detail the process of blood coagulation with emphasis on extrinsic and intrinsic pathways along with the clotting factors.

b. Discuss about the anatomy and physiology of Eye with diagram.

c. Discuss in detail about active transport process across plasma membrane.

SECTION C

3. Attempt any *five* parts of the following: **7 x 5 = 35**

a. What do you mean by anemia? Explain its various types.

b. Write an elaborated note on structure and function of plasma membrane.

c. Write a short note on cranial nerves with emphasis on their functions.

d. Classify joints. Write a short note on synovial joint.

e. Write about various events occurs at neuromuscular junction.

f. Write a note on cardiac cycle.

g. Explain the anatomy and physiology of lymph node.

Sub Code: BP101T

Paper Id: 150101 Roll No:

B. PHARM
(SEM- I) THEORY EXAMINATION 2019-20
HUMAN ANATOMY AND PHYSIOLOGY-I

Time: 3 Hours *Total Marks: 75*

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. **10 x 2 = 20**

a. Define Sagital & Coronal plane.
b. Write the function of Ribosome.
c. Define Osteoblast & Osteocalst.
d. Draw a well labeled diagram of Cell.
e. What is Catabolism and Anabolism?
f. Write about the two main function of Skin.
g. Write the name of pigment present in Rod and Cone cell.
h. Name the bones present in the Ear.
i. Write a short note regulation of blood pressure.
j. Define Optic disc.

SECTION B

2. Attempt any *two* parts of the following: **2 x 10 = 20**

a. Classify Skeletal system & discuss about the structure and functions of vertebral column.
b. Draw a neat labeled diagram of Heart. Explain in detail Cardiac cycle.
c. Define Cell division. Discuss about the somatic cell division in details.

SECTION C

3. Attempt any *five* parts of the following: **5 x 7 = 35**

a. Write about the structure and function of Plasma Membrane.
b. Write a note on Erythropoiesis.
c. Write about the structure and function of Long bone.
d. Discuss about the mechanism and physiology of hearing.
e. Write a note on disorders related to heart.
f. Discuss in detail about lymph circulation and functions of lymphatic system.
g. Describe the mechanism of Blood Coagulation.

PAPER ID-310846

Roll No: | | | | | | | | | | | | | |

B PHARM
(SEM-I) THEORY EXAMINATION 2020-21
HUMAN ANATOMY AND PHYSIOLOGY

Time: 3 Hours ***Total Marks: 75***

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. **10 x 2 = 20**

a.	Define Anatomy & Physiology.
b.	Write the function of Mitochondria.
c.	Define Osteoblast & Osteocalst.
d.	Write the name of pigment present in rod and cone cell.
e.	What is Catabolism and Anabolism?
f.	Write about the two main function of skin.
g.	Define is sagital and parasagital plane.
h.	Name the bones present in the ear.
i.	Define the term Homeostasis.
j.	What is Erythropoisis?

SECTION B

2. Attempt any *two* parts of the following: **2 x 10 = 20**

a.	Classify skeletal system & Discuss about the structure and function of vertebral column.
b.	Define blood coagulation. Write in details about different stages involved in blood coagulation.
c.	Draw a well labeled diagram of cell and explain transport mechanisms across plasma membrane.

SECTION C

3. Attempt any *five* parts of the following: **7 x 5 = 35**

a.	Write about the structure and function of plasma membrane.
b.	Write a note on Blood Group.
c.	Explain positive and negative feedback mechanism with example.
d.	Discuss about the mechanism of physiology of hearing.
e.	Explain the structure and function of long bone.
f.	Define cell division and explain somatic cell division with diagram.
g.	Describe the basic anatomy of eye with the help of diagram.

Subject Code: BP101T

PAPER ID-411302

Roll No: | | | | | | | | | | | | | |

BPHARM
(SEM I) THEORY EXAMINATION 2021-22
HUMAN ANATOMY AND PHYSIOLOGY– THEORY

Time: 3 Hours ***Total Marks: 75***

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. **10 x 2 = 20**

a.	Describe the role of smooth endoplasmic reticulum.
b.	Describe the physiological role of Golgi complex.
c.	Give the function of Langerhans cell in Skin?
d.	Enlist the names of contractile proteins in human body.
e	Identify the blood group known as Universal donor?
f.	Differentiate blood capillaries and lymphatic capillaries.
g.	Define systolic and diastolic blood pressure.
h.	Differentiate preganglionic neurons and post ganglionic neurons.
i.	Write the tissue name known as Pacemaker?
j.	Define Cardiac Output.

SECTION B

2. Attempt any *two* parts of the following: **2 x 10 = 20**

a.	Discuss cell with well labelled diagram. Explain its organelles in detail.
b.	Illustrate hemostasis. Discuss the various pathways of blood coagulation.
c.	Explain the structural and functional difference of Sympathetic and Parasympathetic division of autonomic nervous system.

SECTION C

3. Attempt any *five* parts of the following: **7 x 5 = 35**

a.	Classify transport across plasma membrane. Explain the process of primary active transport.
b.	Explain the structure of Long Bone with the help of diagram.
c.	Discuss the structure and functions of Lymph node.
d.	Describe Heart with well labelled diagram. Relate electrocardiogram (ECG) with it.
e.	Explain the anatomy and physiology of Vision.
f.	Classify Joints. Explain the structure of Synovial Joint.
g.	Discuss the phenomenon of neuromuscular junction with the help of diagram.

Printed Pages:01 **Sub Code: BP- 101T**

Paper Id: 233050 **Roll No.** | | | | | | | | | | |

B PHARM
(SEM I) THEORY EXAMINATION 2022-23
HUMAN ANATOMY AND PHYSIOLOGY-THEORY

Time: 3 Hours ***Total Marks: 75***

Note: Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. **10 x 2 = 20**

(a) Define Anatomy & Physiology.

(b) Write the name of two neurotransmitter.

(c) Write the name of Universal donar.

(d) Define the term Synapse.

(e) What do mean by Rh factor?

(f) Write about the two main function of lymphatic system.

(g) Write the name of pigment present in rod and cone cell.

(h) Name the bones present in the ear.

(i) What is cardiac output?

(j) Write the name of power house of the cell.

SECTION B

2. Attempt any *two*parts of the following: **2 x 10 = 20**

(a) Draw a well labeled diagram of plasma membrane and explain transport mechanisms across plasma membrane.

(b) Classify Skeletal system & Discuss about the structure and function of Vertebral column.

(c) Define blood coagulation. Write in details about different stages involved in blood coagulation.

SECTION C

3. Attempt any *five* parts of the following: **5 x 7 = 35**

(a) Explain the anatomy of Heart with well labeled diagram.

(b) Explain the physiology of hearing in detail.

(c) Write a note on Blood Groups and explain Erthroblastosis fetalis.

(d) Discuss the anatomy and physiology of Lymph node.

(e) Draw a well labeled diagram of cell and its function.

(f) Write a short note on Mitosis.

(g) Describe the basic anatomy of Eye with the help of diagram.

PAPER ID-311374

Roll No: | | | | | | | | | | | | | |

BPHARM
(SEM I) THEORY EXAMINATION 2023-24
HUMAN ANATOMY AND PHYSIOLOGY– THEORY

TIME: 3HRS **M.MARKS: 75**

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. **10 x 2 = 20**

a.	Differentiate between axial and appendicular skeletal system.
b.	Recall positive feedback system.
c.	Summarize homeostasis.
d.	Sketch a well labeled diagram of an eye.
e.	Explain Rh factor.
f.	Write about the two main functions of excretory system.
g.	Write the name of bones present in the ear.
h.	Define intraocular tension.
i.	Enumerate cell junction and its types.
j.	Explain the term endocrine signaling pathway.

SECTION B

2. Attempt any *two* parts of the following: **2 x 10 = 20**

a.	Describe origin and functions of cranial nerve.
b.	Sketch a well labeled diagram of heart. Discuss the conducting system of heart.
c.	Elaborate the process of blood coagulation. Recognize in detail about process of blood coagulation.

SECTION C

3. Attempt any *five* parts of the following: **7 x 5 = 35**

a.	Explain transport mechanisms across plasma membrane.
b.	Write a note on meiotic cell division.
c.	Discuss about the structure and function of plasma membrane.
d.	Define erythropoiesis. Explain its mechanism in detail.
e.	Examine the difference between sympathetic and parasympathetic nervous system.
f.	Discuss about the mechanism of physiology of vision.
g.	Explain the anatomy and physiology of muscles contraction.

PAPER ID-311472

Roll No: | | | | | | | | | | | | |

BPHARM
(SEM I) THEORY EXAMINATION 2024-25
HUMAN ANATOMY AND PHYSIOLOGY– THEORY

TIME: 3 HRS **M.MARKS: 75**

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. **10 x 2 = 20**

a.	Enlist various types of body cavities.
b.	Differentiate "membranous ossification " and "endochondral ossification".
c.	Determine the role of Merkel discs in Skin.
d.	Explain the roles of “microfilaments” and “microtubules”.
e.	Summarize the term “diapedesis”.
f.	Define “MALT”.
g.	Restate the function of “Ceruminous glands” in Ear.
h.	Examine the role of ‘Basal cells” in Olfactory bulb.
i.	Explain the term “Stroke Volume”.
j.	Recall “cardiac cycle and cardiac output”.

SECTION B

2. Attempt any *two* parts of the following: **2 x 10 = 20**

a.	Explain the structure of Synovial joint with well labelled diagram.
b.	DefineHomeostasis. Explain its intrinsic and extrinsic pathways.
c.	Describe the structure and functions of cell and its organelles.

SECTION C

3. Attempt any *five* parts of the following: **5 x 7 = 35**

a.	Outline the anatomy and physiology of Taste buds.
b.	Assess the various waves, segments, and intervals in ECG.
c.	Examine the process of receptor mediated endocytosis.
d.	Analyze the structural and functional differences between Arteries, Veins and Capillaries.
e.	Explain the process at Neuromuscular Junctions with a well labelled diagram.
f.	Outline sliding filament theory and mechanism of skeletal muscle contraction.
g.	Examine the structure of long bones.

Paper ID : 250432

Roll No: | | | | | | | | | | | | | |

BPHARM

(SEM I) THEORY EXAMINATION 2024-25

HUMAN ANATOMY AND PHYSIOLOGY

TIME: 3 HRS **M.MARKS: 75**

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION – A

1. Attempt *all* questions in brief. **10 x 2 = 20**

a) Write the components of feedback mechanism.
b) Write the function of Merkel cell in skin.
c) What is cardiac output?
d) Give the number of bones from different parts of vertebral column.
e) Why mitochondria are known as powerhouse of cell?
f) Give differences between skeletal and smooth muscle.
g) Write the name and function of clotting factor XIII.
h) Enlist the divisions of PNS.
i) Write about synaptic and endocrine signaling.
j) Write the life span of red blood cells.

SECTION – B

2. Attempt any *two* of the following: **2x10 = 20**

a) Draw a neat and well labelled diagram of plasma membrane. Discuss the various transport mechanism across the plasma membrane.
b) Discuss the structure and functions of skin with neat and well labelled diagram.
c) Explain in detail the number, name, type, location and function of cranial nerves.

SECTION – C

3. Attempt any *five* parts of the following: **5 x 7 = 35**

a) Explain various types of anemia.
b) Write a note on ECG.
c) Arrange various levels of structural organization with example.
d) Explain the physiology of hearing.
e) Discuss mitosis with suitable diagram.
f) Write about synovial joints with example.
g) Discuss anatomy and function of thymus with suitable diagram.