Nov 2021

Roll Number ---------- (Total Number of Questions 13) (Total number of Printed Pages 01)

Programme	B. Pharmacy
Semester	1st
Subject	Human Anatomy and Physiology-I
Subject Code	BP101T
Paper ID	74644
Time	3Hours
Maximum Marks	75
Link to upload answer sheet	https://forms.gle/c8XBQiUJzkhWx2gs5

Instructions to Candidates: *No supplementary/continuation sheet will be issued to the candidates. Answer the questions precisely.*

Section A consists of Ten parts of 2 marks each (Objective Type); Attempt **ALL.*

***Section B consists of Three questions carrying 10 marks each (Long Answer); attempt any **TWO**.*

****Section C consists of Nine questions carrying 5 marks each (Short Answer); attempt any **SEVEN**.*

Section A (10 X2 = 20)

1. Give very short answers to the followings (2 marks each):

i.	Which connective tissue is responsible for immune response?
ii.	Name two locations where simple columnar epithelium is present,
iii.	Name the contractile proteins of the muscle.
iv.	Define Joints and give its various types.
v.	Differentiate between skeleton muscle and smooth muscle.
vi.	Differentiate between arteries and veins.
vii.	Draw a neat labelled diagram of lymph node.
viii.	What is the main function of rod cells in the eye?
ix.	Which matured cells in the blood do not have a nucleus?
x.	Give the formula for Blood Pressure?

Section B (2 X 10 = 20)

2.	a) Differentiate between Sympathetic nervous system and Parasympathetic nervous system. b) What is Coagulation? Discuss in detail about intrinsic and extrinsic pathway of blood coagulation.
3.	a) Discuss the various phases of cardiac cycle. b) How blood pressure is regulated by kidney?
4.	a) Differentiate between active and passive transport processes across cell membrane. b) Describe the process of skeletal muscle contraction.

Section C (7 X 5 = 35)

5.	Explain in detail Synovial joint.
6.	Write down the functions of cranial nerves.
7.	Write about the anatomy and physiology of epithelial tissues.
8.	Elaborate composition and functions of blood.
9.	Explain the anatomy and physiology of ear.
10.	Explain in detail hypertension and angina pectoris.
11.	Explain the structure of skin with the help of well labelled diagram.
12.	Differentiate between meiosis and mitosis.
13.	Describe the various form of intracellular signaling.

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160123

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Section- A **(10X2=20)**

1	Give very short answers to the followings
i.	Define the terms anatomy and physiology.
ii.	What do you mean by the sagittal plane and frontal plane?
iii.	What are the functions of neuroglia?
iv.	Name the bone-forming cell.
v.	Define hematopoiesis.
vi.	What are the functions of the reticuloendthelial system?
vii.	Define pulmonary circulation.
viii.	Enlist the bones present in the ear.
ix.	Enlist the different cranial nerves.
x.	Write the functions of the vagus nerve.

Section- B **(2X10=20)**

2.	Classify the skeletal system & Discuss the structure and function of the pelvic girdle.
3.	Draw the well-labeled diagram of the eye ball and mention the visual pathway.
4.	Enumerate the structure of the heart and also discuss the cardiac cycle.

Section- C **(7X5=35)**

5.	Discuss the transport mechanisms of transport across the cell membrane.
6.	Classify various types of human epithelial tissues. Describe the stratified transitional epithelium.
7.	Explain the anatomy and functions of the skin.
8.	Differentiate sympathetic and parasympathetic nervous systems.
9.	Discuss the positive and negative feedback system with examples.
10.	Write down the physiology of muscle contraction.
11.	Write the physiology of the clotting mechanism with the help of a schematic diagram.
12.	Write a short note on the blood group and its significance.
13.	Discuss the conduction pathway of the heart.

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13 JUN 2023

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Section- A **(10 X2 = 20)**

1	Give very short answers to the followings-
i.	Define homeostasis.
ii.	What are the functions of ligaments?
iii.	Discuss any four function of cell.
iv.	Define tissue and give its type.
v.	What is Rh factor?
vi.	What is the function of SA node and AV node?
vii.	What do you mean by cardiac output?
viii.	Enlist various layers of skin.
ix.	Discuss about functions of rod cell in the eye.
x.	Differentiate between skeleton muscle and smooth muscle.

Section- B **(2 X 10 = 20)**

2.	Draw well label diagram of cell and explain the functions of cell organelles.
3.	Write down a detail note on anatomy of heart and its chambers.
4.	Classify tissue. Write a detail note connective tissue.

Section- C **(7 X 5 = 35)**

5.	Differentiate sympathetic and parasympathetic nervous system.
6.	Discuss about the skin and its functions.
7.	Discuss the various phase of cardiac cycle.
8.	Write down a note on joints
9.	Describe the process of skeletal muscle contraction.
10.	Write a short note on physiology of eye.
11.	Write a short note on lymphatic system.
12.	Elaborate composition and function of blood.
13.	Write a short note on – a) Hypertension b) Congestive heart failure

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281123

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Section A **(10 X2 = 20)**

1.	Give very short answers to the following:
i.	What is the composition of lymph?
ii.	What is stroke volume?
iii.	What is the clinical application of homeostasis?
iv.	How many total bones are present in the axial skeleton?
v.	What is hematocrit?
vi.	Classify the joints according to their movability.
vii.	What do you understand by the paracrine form of intracellular signalling?
viii.	Write about Autorhythmic Fibers.
ix.	What is the role of centrosomes in cell division?
x.	What is the effect of venous return on blood pressure?

Section B **(2 X 10 = 20)**

2.	Draw a well-labelled diagram of the eye. Add brief notes on vision pathways.
3.	Write a detailed note on the cardiac cycle.
4.	Write a detailed note on the following: a. Skin. b. Blood clotting pathways.

Section C **(7 X 5 = 35)**

5.	Write a detailed note the anatomy of the heart.
6.	Write in detail about connective tissues.
7.	What is the blood grouping system? Give details.
8.	Differentiate between the functions performed by the sympathetic and non-sympathetic nervous system.
9.	Write about transport across cell membranes in the form of vesicles.
10.	Write notes on the conduction system of the heart.
11.	Write about the mitosis phase of cell division.
12.	Write the physiology of muscle contraction.
13.	How the body regulate of blood pressure? Write in detail.

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Section- A (10X2=20)

1.	Give a very short answers to the followings:
i.	What is Rh factor? Why is it important?
ii.	Differentiate between the axial and appendicular skeletal systems.
iii.	Define anatomy and physiology.
iv.	Name any four common disorders of the eye.
v.	What is the process muscle contraction?
vi.	What type of cell division is required for growth and repair of body?
vii.	Describe the two functions of the skeletal system.
viii.	What are the four structural differences between veins and arteries?
ix.	Draw and label a simple line diagram of a cell membrane.
x.	What is contact-dependent signaling?

Section- B (2X10=20)

2.	What is the circulatory system? Explain the structure and function of the cardiovascular system.
3.	Explain the structure and function of different types of epithelial tissues, and provide a diagram showing their diversity.
4.	What are the functional and structural differences between the parasympathetic and sympathetic nervous systems?

Section- C (7X5=35)

5.	Classify joints based on structure and function.
6.	What is the composition and function of blood?
7.	Discuss the regulation of blood pressure.
8.	Describe the lymphatic system and explain its functions.
9.	Explain the causes, symptoms, and potential complications of myocardial infarction.
10.	Discuss the origin and functions of spinal nerves and cranial nerves.
11.	Describe the structure and functions of the skin in the human body.
12.	Explain the roles of platelets and clotting factors in blood coagulation.
13.	Discuss endocrine signalling and its impact on regulating body function.

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Section- A (10X2=20)

1.	Give very short answers to the following:
i.	Define anatomy and explain its scope.
ii.	Describe the concept of homeostasis and its significance.
iii.	Illustrate the structure of a cell membrane.
iv.	Define the various types of cell junctions.
v.	Define facilitated diffusion.
vi.	Classify the types of intracellular signalling pathways.
vii.	Differentiate between epithelial and connective tissues.
viii.	Elaborate on the neuromuscular junction.
ix.	Summarize the process of coagulation.
x.	List and describe the divisions of the skeletal system.

Section- B (2X10=20)

2.	How do the cellular and tissue levels of organization contribute to skin homeostasis?
3.	Analyze the structure and functions of skeletal muscle and its role in movement.
4.	Critically analyze the anatomy of the heart, its blood circulation, and the mechanisms regulating cardiac output.

Section- C (7X5=35)

5.	Analyze the origin and functions of the cranial nerves.
6.	Classify various types of joints and give relevant examples.
7.	Evaluate the composition and functions of blood.
8.	Discuss the structure and functions of the lymphatic system in various pathological conditions.
9.	Compare and contrast the sympathetic and parasympathetic nervous systems.
10.	Explain the anatomy and physiology of human eye.
11.	Evaluate various aspects of Electrocardiography and illustrate its importance in cardiac disorders
12.	Analyze the factors regulating blood pressure.
13.	Analyze the cells and functioning of the reticuloendothelial system.

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Section- A (10X2=20)

1.	Give very short answers to the followings:
i.	Define homeostasis and name any two basic life processes.
ii.	List any two forms of intracellular signaling, along with one example of each.
iii.	Name the two main divisions of the skeletal system.
iv.	List any two functions of the skin.
v.	What is the significance of the Rh factor in blood transfusion?
vi.	List two functions of lymph and name one lymphatic organ.
vii.	Name any two cranial nerves, along with their origin and one function of each.
viii.	Draw a labeled diagram of the structure of the human eye. *(No explanation required.)*
ix.	Define cardiac output and mention one factor that affects it.
x.	Differentiate between arteries and veins based on their structure and function.

Section- B (2X10=20)

2.	Compare and contrast the four primary tissue types in the human body—epithelial, connective, muscular, and nervous—based on their structure, location, and functions.
3.	Classify bones according to their shape and structure. Explain the key features and functions of the axial and appendicular skeletal systems.
4.	Describe the anatomy of the heart, including arteries, veins, and capillaries, and explain the process of blood circulation through it.

Section- C (7X5=35)

5.	Explain the process of muscle contraction with reference to the sliding filament theory.
6.	Describe the composition and functions of blood. What is the significance of blood grouping?
7.	Compare and contrast the sympathetic and parasympathetic nervous systems in terms of structure and function.
8.	Discuss the structure and functions of the skin as part of the integumentary system.
9.	What is blood coagulation? Explain the mechanism of blood clotting.
10.	Classify joints based on their structure and function. Provide examples of each type.
11.	Explain the different types of transport mechanisms across the cell membrane.
12.	Describe the structure and functions of a typical human cell.
13.	Describe the cardiac cycle and explain how the autonomic nervous system regulates heart rate.

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Section- A **(10X2=20)**

1.	Give very short answers to the followings:
i.	Define the terms anatomy and physiology.
ii.	Write process of osmosis.
iii.	Name the four basic types of human tissues.
iv.	What is melanin and what is its function?
v.	Name the protein filaments involved in muscle contraction.
vi.	Mention two functions of the lymphatic system.
vii.	What is the role of the sinoatrial (SA) node in the heart?
viii.	Name the auditory ossicles.
ix.	Name any two cranial nerves and their functions.
x.	What do you mean by Rh factor?

Section- B **(2X10=20)**

2.	Describe in detail the structure of the skin including epidermis, dermis, and subcutaneous layer. Add a labelled diagram.
3.	Describe in detail the structure and functions of the eye. Add a labelled diagram.
4.	Describe the anatomy of the heart with a labelled diagram and explain the blood circulation.

Section- C **(7X5=35)**

5.	Describe the structure and major functions of a eukaryotic cell with a neat labelled diagram.
6.	Describe the structure and function of nervous tissue.
7.	Explain the role of actin and myosin in muscle contraction.
8.	Discuss the mechanism of blood coagulation with a labelled diagram.
9.	Classify the peripheral nervous system and explain its components with suitable examples.
10.	Discuss how blood pressure is regulated and its physiological importance.
11.	Describe the ABO blood grouping system.
12.	Explain lymph circulation and how lymph is returned to the bloodstream.
13.	Explain the concept of homeostasis with a suitable example.

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