



## **BRAINWARE UNIVERSITY**

## **Term End Examination 2022** Programme - B.Optometry-2022 Course Name – General Human Anatomy Course Code - BOPTOC101 (Semester I)

Full Marks: 60 Time: 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

## Group-A

(Multiple Choice Type Question)

1 x 15=15

- 1. Choose the correct alternative from the following:
- (i) Adduction describes which of the following?
  - a) It moves the structure toward the body's midline reference point
  - c) It moves the structure in a circular motion
- (ii) Which statement describes flexion?
  - a) Movement that increases the angle between two structures or joints, causing the structures to straighten or move apart
  - c) Flexing a muscle
- (iii) Which statement describes extension?
  - a) Movement that increases the angle between two structures or joints, causing the structures to straighten or move apart
  - c) Flexing a muscle
- (iv) Select the following is called "Master Gland"
  - a) Thyroid gland
  - c) Hypothalamus gland

  - a) Femur
  - c) Atlas
- a) Between humerus and pectoral girdle

a) Â Â Frontal lobe

- (vi) Select the correct joints from the following is an example of a hinge joint?
  - c) Between carpals
- (vii) Choose the Centre for heat, touch, cold & pressure are in
  - c) Parietal lobe

- b) It moves the structure in a circular motion
- d) It rotates the structure around its long axis
- b) A Movement that decreases the angle between two structures or joints, causing the structures to bend or move closer together
- d) Relaxing a muscle
- b) Movement that decreases the angle between two structures or joints, causing the structures to bend or move closer together
- d) Relaxing a muscle
- b) Pituitary gland
- d) None of these
- (v) Identify from the following is a moving skull bone?
  - b) Mandible

d) Tibia

- b) Between knee joints
- d) Between carpals and metacarpals
- b) Occipital lobe
- d) Frontal as well as occipital lobe both

(VIII)	choose the part of the brain who controls the h	cart:	
	a) Spinal cord c) Neuron	b) Medulla oblongata d) None of these	
(IX)	Collect from the following is one of the parts of a) Hypothalamus	b) Cerebellum.	
(x)	c) Corpus callosum Select the correct option: The endothelium is fo	d) Spinal cord pund in the	
(vi)	<ul><li>a) tunica intima</li><li>c) tunica externa</li><li>Select the right option:</li></ul>	b) tunica media d) lumen	
	) The longer the vessel, the lower the b) As blood volume decreases, blood press resistance and the greater the flow. and blood flow also decrease. ) Increased viscosity increases blood flow. d) All of these are true. Choose the option which extends the entire length of a muscle fibre:		ressure
(xiii)	a) Sarcomere c) Myosin filament Find error:	b) Myofibril d) Actin filament	
	<ul><li>a) Extensibility is a property of muscle.</li><li>c) Degradability is a property of muscle.</li><li>Prepare a correct order of organization of skeler unit).</li></ul>	b) Excitability is a property of muscle. d) Elasticity is a property of muscle. tal muscle tissue (smallest to largest	
(xv)	<ul><li>a) fascicle, muscle, muscle fibre, myofibril</li><li>c) muscle fibre, fascicle, muscle, myofibril</li><li>Write the name of the protein which blocks the relaxed muscle.</li></ul>	b) muscle, myofibril, muscle fibre, fasci d) myofibril, muscle fibre, fascicle, mus myosin-binding site on actin in the	
	a) titin c) myoglobin	b) troponin d) tropomyosin	
	Grou	n-B	
	(Short Answer Ty	•	3 x 5=15
<ol> <li>Predict the locations where the non-striated muscles can be found.</li> <li>Write about the different types of cells/muscle fibers found in the heart.</li> <li>Write about the layers of the Meninges.</li> <li>Explain the responsibilities of Somatic Nervous system</li> <li>Analyze the change in the diameter of different blood vessels types.         <ul> <li>OR</li> </ul> </li> <li>Compound X can contract vascular smooth muscles. Infer the change in blood pressure if</li> </ol>			(3) (3) (3) (3) (3)
C	ompound X is injected in the body?		
	<b>Grou</b> (Long Answer Ty	-	5 x 6=30
8.   9. ( 10.	Explain about the Central Nervous System with suitable labelled diagram Explain about the human axial skeleton, with giving suitable labelled diagrams. Choose any two muscles in the upper limb and mention their function. Describe about Endocrine system, its major organs and functions briefly. Construct a labelled diagram of the structure of sarcomere and describe it briefly.  OR		
	Write the properties of cardiac muscle. Compare the lymphatic system and blood vascula	ature	(5) (5)
	OF	R	
	Differentiate between the different layers presen	t in the blood vessels.	(5)

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