



## **BRAINWARE UNIVERSITY**

## **Term End Examination 2022**

## Programme – B.Optometry-2019/B.Optometry-2020/B.Sc.(PA)-2020/B.Optometry-2021/B.Sc.(PA)-2021

Course Name – Human Anatomy
Course Code - BOPTO101/BPA101
( 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) Collect from the following is one of the parts of the hind brain?a) Hypothalamusb) Cerebellum.c) Corpus callosumd) Spinal cord
- (ii) Collect from the following parts of the brain who controls the body temperature and urge of eating?
  - a) Thalamus b) Cerebellum c) Pons d) Hypothalamus
- (iii) Control of temperature, endocrine activity, metabolism, and thirst are functions associated with the- collect from the following.
- a) Medulla oblongata b) Cerebellum c) Hypothalamus d) Cerebrum (iv) Select the correct option: The endothelium is found in the \_\_\_\_\_\_
- (iv) Select the correct option: The endothellum is found in the
- a) tunica intima b) tunica media c) tunica externa d) lumen
- (v) In the blood vessels, smooth muscle fibers are present in the layer called:
- a) Tunica externa
  b) Endothelial cell layer
  c) Tunica intima
  d) Tunica media
  (vi) Adduction describes which of the following?
- (vi) 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
- (vii) 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

- b) It moves the structure in a circular motion
- d) It rotates the structure around its long axis
- b) Movement that decreases the angle between two structures or joints, causing the structures to bend or move closer together
- d) Relaxing a muscle

| (VIII                   | ) Locate a plane that separates the body or struct   | cure into upper and lower parts?   |                                 |
|-------------------------|--|--|---------------------------------|
| (ix)                    | <ul><li>a) Sagittal plane</li><li>c) Oblique plane</li><li>Find error:</li></ul>   | b) Transverse plane<br>d) Frontal plane  |                                 |
| (x)                     |  | b) Excitability is a property of muscle.<br>d) Elasticity is a property of muscle.<br>ristics of cardiac muscles.                              |                                 |
| (xi)                    | <ul><li>a) They work continuously</li><li>c) They are not striated</li><li>Write the name of the ion which is essential for</li></ul>  | <ul><li>b) They are branched</li><li>d) They are involuntary<br/>muscular contraction.</li></ul>   |                                 |
| (v::)                   | a) CI- c) K+ Solost the correct joints from the following is an  | b) Ca2+ d) Na+   |                                 |
|                         | Select the correct joints from the following is an a) Between humerus and pectoral girdle c) Between carpals Select how many bones are there in human spir   | <ul><li>b) Between knee joints</li><li>d) Between carpals and metacarpals</li></ul>  |                                 |
| (xiv                    | <ul><li>a) 33</li><li>c) 31</li><li>Write the name of the protein which blocks the relaxed muscle.</li></ul>   | b) 32<br>d) 30<br>myosin-binding site on actin in the  |                                 |
| (xv)                    | <ul><li>a) titin</li><li>c) myoglobin</li><li>Indicate the following layer is also known as strain</li></ul>   | b) troponin<br>d) tropomyosin<br>atum germinativum?  |                                 |
|                         | a) Stratum corneum<br>c) Stratum spinosum  | b) Stratum basale<br>d) Stratum lucidum  |                                 |
|                         | Grou   |  |                                 |
|                         | (Short Answer Ty   | pe Questions)  | 3 x 5=15                        |
| 3. E<br>4<br>5<br>5. Ju | istinguish the various functions of the skeletal system about cerebellum with labelled diagram Explain about Grey & white matter Compare between the Arteries and The Veins. Sustify the statement: actin and myosin proteins and suscles.   | re responsible for striations in the   | (3)<br>(3)<br>(3)<br>(3)<br>(3) |
| V                       | OR<br>Irite the name of the proteins present in the myc  |  | (3)                             |
| v                       | white the name of the proteins present in the mye  | morns.   | (3)                             |
|                         | <b>Grou</b>  <br>(Long Answer Typ  |  | 5 x 6=30                        |
| 3.<br>9.<br>10.<br>11.  | Describe about Endocrine system, its major organd Write the properties of cardiac muscle.  Describe about types of joints in human body with Explain about the structure, function and types of Analyse the functions of the lymphatic systems.  Malignant tumors need continuous supply of oxymhibit the formation of blood vessels. Explain where the treatment of malignant tumors. | h example & diagram.<br>f Neurons with labelled diagram.<br>gen and nutrients. Anti-angiogenic drug<br>y anti-angiogenic drugs can be used for |                                 |
|                         | Differentiate between the different layers presen  |  | (5)                             |
|                         |  |  |                                 |