



## BRAINWARE UNIVERSITY

Term End Examination 2023-2024

Programme – B.Optomerty-2022/B.Optomerty-2023

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) Inversion describes which of the following?

- a) A body part turning on its axis away from the midline of the body.
- c) Turning upward

- b) A body part turning on its axis toward midline of the body.
- d) Turning downward

(ii) Select the correct following statement:

- a) Large intestine has finger like projection called villi
- c) Large intestine is wider and shorter than small intestine

- b) Assimilation of food takes place in large intestine
- d) Absorption of digested food takes place in large intestine

(iii) Name of the filtration units of the excretory system in human

- a) Ureter
- c) Neurons

- b) Nephrons
- d) Urethra

(iv) Haversian canals observe in-

- a) Humarus
- c) Pubis

- b) Scapula
- d) Clavicle

(v) Identify the outermost layer of the skin.

- a) Corium
- c) Adipose

- b) Dermis
- d) Epidermis

(vi) Select the area of the body would you not find any sebaceous glands

- a) The face
- c) On the arms and leg

- b) In the groin area
- d) On the palms of the hands and soles of the feet

(vii) Predict from the following that the neuron cell is made up of?

- a) Axon
- c) Nucleus

- b) Dendrite
- d) All of these

(viii) Choose from the following forms the major part of the human brain?

- a) Cerebrum  
c) Medulla oblongata
- b) Cerebellum  
d) Hypothalamus
- (ix) Choose from the following that Cerebral palsy affects neurons in which part of the body?
- a) Brain  
c) Muscles
- b) Spine  
d) None of these
- (x) name the portion included in brain stem
- a) midbrain  
c) medulla
- b) pons  
d) all of THESE
- (xi) muscle cells are also named as
- a) muscle fibre  
c) both
- b) myocyte  
d) none of the above
- (xii) identify the correct option for cardiac muscle
- a) striated  
c) striated and involuntary
- b) non striated  
d) striated and voluntary
- (xiii) define the structure which give rise to falx cerebri
- a) pia mater  
c) arachnoid mater
- b) dura mater  
d) white mater
- (xiv) select the name of the vertical plane which divides the body into front and back
- a) frontal  
c) transverse
- b) para sagittal  
d) trans tubercular
- (xv) select the other name of posterior pituitary
- a) adeno hypophysis  
c) pars intermedia
- b) neuro physis  
d) infundibulum

#### Group-B

(Short Answer Type Questions)

3 x 5=15

2. Explain about Grey and White matter. (3)
3. describe the ventricles of brain with diagram (3)
4. Describe the 12 pair of cranial nerves with function? (3)
5. Describe the structure of a typical vertebra. (3)
6. Evaluate the functions of the capillaries. (3)

OR

Illustrate the function of valves present in the blood vessels. (3)

#### Group-C

(Long Answer Type Questions)

5 x 6=30

7. Define the different planes that we study in anatomy. Also describe the significance of the plane? (5)
8. Define cartilage. Define the components of cartilage. describe the general features of cartilage (5)
9. Write origin, insertion, action of biceps, hamstring muscles? (5)
10. .write about origin, termination, course, branches of abdominal aorta (5)
11. Choose any two muscles in the upper limb and mention their function. (5)
12. Malignant tumors need continuous supply of oxygen and nutrients. Anti-angiogenic drugs inhibit the formation of blood vessels. Explain why anti-angiogenic drugs can be used for the treatment of malignant tumors. (5)

OR

Draw a simple diagram of hepatic portal system. (5)