



BRAINWARE UNIVERSITY

Term End Examination 2023

Programme – B.Sc.(FND)-Hons-2022

Course Name – Human Physiology II

Course Code - BFNC202

(Semester II)

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) Select the inner most layer of human eye.

- | | |
|------------|-----------|
| a) Sclera | b) Cornea |
| c) Choroid | d) Retina |

(ii) Identify the functional unit of contractile system in the striated muscles.

- | | |
|--------------|------------------|
| a) Z band | b) cross bridges |
| c) sarcomere | d) myofibril |

(iii) Identify the type of muscle contraction where the muscle tenses but does not shorten.

- | | |
|----------------|---------------|
| a) Isometric | b) Isotonic |
| c) Contraction | d) Relaxation |

(iv) Identify the component that surrounds bundles of muscle fibers in the structure of skeletal muscle.

- | | |
|---------------|---------------|
| a) Epimysium | b) Endomysium |
| c) Perimysium | d) Aerimysium |

(v) Name the junctional region where one neurone ends and the other begins.

- | | |
|-----------------------|----------------------|
| a) Synaptic potential | b) Neurotransmitters |
| c) Synapse | d) Reflex arc |

(vi) Name the hormone which is responsible for the regulation of blood sugar.

- | | |
|-----------------|--------------|
| a) Adrenaline | b) Insulin |
| c) Testosterone | d) Thyroxine |

(vii) Name the hormone that contains iodine.

- | | |
|---------------|--------------|
| a) Adrenaline | b) Thyroxine |
| c) Insulin | d) Estrogen |

- (viii) Name the muscle which is present in heart.
- | | |
|-------------------|--------------------|
| a) smooth muscle | b) striated muscle |
| c) Cardiac muscle | d) Straight muscle |
- (ix) Name the condition which is produced due to increased GH secretion in adults.
- | | |
|---------------|----------------------|
| a) Gigantism | b) Dwarfism |
| c) Acromegaly | d) Addison's disease |
- (x) Name the place from where thyroxin is secreted?
- | | |
|----------------------|----------------------|
| a) Parathyroid gland | b) Pituitary gland |
| c) Thyroid gland | d) Suprarenal glands |
- (xi) Name the place of human body where the fertilisation process occurs.
- | | |
|-----------|-------------------|
| a) Uterus | b) Fallopian tube |
| c) Ovary | d) Vagina |
- (xii) Identify the area where olfactory bulb is present.
- | | |
|---------|-----------|
| a) Ear | b) Eye |
| c) Nose | d) Tongue |
- (xiii) Identify the hormone which is known as hunger hormone.
- | | |
|----------------|-------------------|
| a) Aldosterone | b) Ghrelin |
| c) Glucagon | d) Cathecolamines |
- (xiv) Identify the component which The brain cell does not include.
- | | |
|----------------------|--------------|
| a) Spinal Cord | b) Mid brain |
| c) Medulla oblongata | d) Pons |
- (xv) Name the layer where Keratin is produced in the skin.
- | | |
|---------------|---------------|
| a) Hypodermis | b) Dermis |
| c) Epidermis | d) Endodermis |

Group-B

(Short Answer Type Questions)

- | | |
|---|----------|
| 2. Discuss " Isometric contraction." | 3 x 5=15 |
| 3. Discuss three functions of the sympathetic nervous system | (3) |
| 4. Write down the name of hormones which are secreted from thyroid gland. | (3) |
| 5. Define spermatogenesis. | (3) |
| 6. Discuss the functions of placenta. | (3) |
| Elaborate the functions of skin | (3) |

OR

Group-C

(Long Answer Type Questions)

- | | |
|---|----------|
| 7. Describe with a diagram the endometrial changes during menstrual cycle. | 5 x 6=30 |
| 8. Briefly state the different steps of spermatogenesis with diagram. | (5) |
| 9. Briefly discuss the hormonal and uterine changes during different phases of menstrual cycle. | (5) |
| 10. Write down the comparison between sympathetic and parasympathetic nervous system | (5) |
| 11. Illustrate the properties of skeletal muscle with diagram | (5) |
| 12. Hormone show fight or flight response- Justify the statement | (5) |
| Write the structure of uterus. | (5) |

OR