



35580-44633



BRAINWARE UNIVERSITY

Library
Brainware University
398, Ramkrishnapur Road, Sarasat
Kolkata, West Bengal-700125

Term End Examination 2025-2026

Programme – B.Sc.(FND)-Hons-2024/B.Sc.(FND)-Hons-2025

Course Name – Human Physiology II

Course Code - BFD27102 (T)

(Semester II)

Full Marks : 40

Time : 2:0 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 10=10

1. Choose the correct alternative from the following :

(i) Select the correct organ that produces bile.

- | | |
|-------------|----------------|
| a) Liver | b) Gallbladder |
| c) Pancreas | d) Stomach |

(ii) Explain the contribution of the liver in the digestion process.

- | | |
|---------------------|------------------------------|
| a) It stores bile | b) It produces enzymes |
| c) It filters blood | d) It synthesizes bile acids |

(iii) Identify the hormone that is NOT involved in regulating digestion and nutrient absorption process.

- | | |
|-------------|--------------------|
| a) Insulin | b) Gastrin |
| c) Secretin | d) Cholecystokinin |

(iv) Name the hormone which is responsible for the release of milk from the mammary gland.

- | | |
|-----------------|--------------|
| a) Adrenaline | b) Thyroxine |
| c) Progesterone | d) Oxytocin |

(v) Select the source of secretion of Testosterone.

- | | |
|-------------------|--------------------------------|
| a) Granulosa cell | b) Interstitial cell of testes |
| c) Placenta | d) Adrenal cortex |

(vi) Name the place of human body where the fertilisation process occurs.

- | | |
|-----------|-------------------|
| a) Uterus | b) Fallopian tube |
| c) Ovary | d) Vagina |

(vii) Identify the name of the fertilized cell.

- | | |
|-----------|-----------|
| a) Zygote | b) Embryo |
| c) Ovary | d) Sperm |

(viii) Explain the role of testosterone in male development and its function.

- | | |
|-----------------------------------|--|
| a) It regulates sperm production. | b) It promotes development of male sex organs. |
|-----------------------------------|--|

- c) It contributes to muscle growth and bone density. d) All of these
- (ix) How does the feedback loop between testosterone and luteinizing hormone (LH) regulate sperm production?
- a) High testosterone levels stimulate LH production, leading to increased sperm production. b) High testosterone levels inhibit LH production, maintaining a balance in sperm production.
- c) LH stimulates testosterone production, which then triggers spermatogenesis. d) There is no feedback loop; testosterone and LH levels are independent.
- (x) Identify the reason behind the Dark adaptation in the eye.
- a) Dilation of pupil b) Cone adaptation
- c) Rod adaptation d) Constriction of pupil

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Classify synapses. (3)
3. Explain the functions of organ of corti. (3)
4. Determine the hormones secreted by the anterior pituitary gland. (3)
5. Differentiate between bolus and chyme. (3)
6. Distinguish the three main male reproductive organs responsible for sperm production. (3)

OR

Summarize the basic function of spermatogenesis. (3)

Group-C

(Long Answer Type Questions)

5 x 3=15

7. Interpret the role of hypothalamus in the regulation of body temperature. (5)
8. Write down the functions of insulin (5)
9. Propose the relevant internal and external organs associated with male reproductive system along with brief description for each. (5)

OR

Compose structure and function of seminal vesicle. (5)

Library
Brainware University
398, Ramkrishna Road, Barasat
Kolkata, West Bengal-700125