

Enrolment Number

Total No. of printed pages = 03

27/5/25

Winter, 2025

B. Pharm 2<sup>nd</sup> Semester Examination

Human Anatomy and Physiology II-Theory

Course Code: BP201T

Bina Chowdhury Central Library  
Girijananda Chowdhury University  
Hatkhowapara, Azara, Ghy-17

Full Marks – 75

Time – 3 hours

The figure in the margin indicates full marks for the questions.

1. Multiple choice questions (MCQ) (Answer all questions):

20 x 1=20

(i) Pharynx is a part of....

- (i) Respiratory system (ii) digestive system  
(iii) both (i) & (ii) (iv) None

(ii) Larynx is also known as

- i) Motor centre ii) voice box iii) humidifier iv) None

(iii) Food pipe is called....

- i) Oesophagus ii) Trachea iii) Fundus iv) none

(iv) HCL is essential for .....

- (i) bacteriolytic action (ii) Acidic environment (iii) Enzymatic action (iv) all

(v) Trypsin belongs to....

- (i) Pancreatic juice ii) intestinal juice iii) gastric juice iv) All

(vi) Portal circulation is linked to.....

- (i) Liver ii) kidney iii) heart iv) All

(vii) 9 weeks pregnancy stage is called as.....

- (i) Embryonic development (ii) foetal development  
(iii) placental development (iv) all

(viii) Melatonin is released by.....

- (i) Pineal gland ii) LH iii) FSH iv) All

(ix) Deficiency of ADH causes....

- (i) Diabetes insipidus ii) Diabetes Mellitus iii) Congenital Diabetes iv) All



(x) Which of the following parameter represents resting phase...

- (i) outside membrane is positively charged and inside is negatively charged (ii) inside is positively charged and outside is negative  
(iii) Refractory period (iv) None

(xi) Epiglottis is a .....of larynx

- (i) Bone (ii) Tendon  
(iii) cartilage (iv) None

(xii) Penicillin like drugs is filtered by secreting through.....

- (i) Peri tubular capillary (ii) per tubular capillary (iii) pre tubular capillary (iv) All

(xiii) Schwan cells are....

- (i) Neuroglia (ii) microglia (iii) astrocytes (iv) grey matter

(xiv) Acetyl choline is released by.....

- i) somatic nervous system (ii) Parasympathetic nervous system (iii) sympathetic nervous system (iv) All.

(xv) Inner lining of alimentary canal is .....

- h) Mucosa (ii) epithelial layer (iii) muscularis mucosa (iv) All

(xvi) fertile ovum is called.....

- (i) zygote (ii) oocyte  
(iii). embryo (iv) None

(xvii) Protective covering of brain is.....

- i) Ventricles (ii) CSF (iii) meninges (iv) none

(xviii) Which of the following is true

- (i) neurotransmitters are chemical impulses  
(ii) Dopamine is a neurotransmitter  
(iii) Adrenaline is a hormone  
(iv) All

(xix) Which of the following is the largest part of brain

- (i) cerebrum (ii) cerebellum  
(iii) both (iv) None

(xx) lung volume can be measured by....

- (i) Tidal volume (ii) spirometry (iii) residual volume (iv) all

Bina Chowdhury Central Library  
Girijananda Chowdhury University  
Hatkhowapara, Azara, Ghy-17

7 x 5 =35

## 2. Short Answers (Answer any seven)

- (i) Explain about the Brain stem and cerebrospinal fluid.  
(ii) Write a note on neurotransmitter transmission.

- (iii) Describe the functions of meninges and ventricles.
- (iv) Describe the functions and anatomy of small intestine.
- (v) Write a note on regulation of respiration.
- (vi) Define nephrons? Explain briefly about the role of RAS system.
- (vii) Describe the functions of urinary tract. Write about micturition reflex.
- (viii) Write a note on the process of oogenesis. Explain the physiology of menstruation.

### 3. Long Answers (Answer any two)

2x10 =20

- (i) Write notes on
  - (a) Spermatogenesis
  - (b) Protein synthesis
  - (c) Thyroid gland
  - (d) Lung volumes and diagnostic tests
- (ii) Define hormone? Classify hormones and discuss elaborately about the mechanism of hormone production.
- (iii) Illustrate the organization of nervous system. Explain the function of nervous system. Classify nervous systems and name the various receptors of impulse sensation.

Bina Chandra Central Library  
Girijananda Chandra University  
Hatkhola, Azara, Ghy-17