

B.Pharm. (CBCS Pattern) Semester-II
BP201T - Human Anatomy and Physiology-II

P. Pages : 3

Time : Three Hours



GUG/W/24/10878

Max. Marks : 75

- Notes :
1. All questions are compulsory.
 2. Diagrams and Chemical equation should be given wherever necessary.

- 1.**
- i) Which part of neuron transmit electrical signal to a target cell **20x1**
=20
 - a) Dendrites
 - b) Soma
 - c) Cell body
 - d) Axon
 - ii) Subdural space in the brain is present in between
 - a) Piamater and Duramater
 - b) Duramater and Arachinoidmater
 - c) Arachinoidmater and piamater
 - d) Inbetween cerebral hemisphere
 - iii) Which is common neurotransmitter?
 - a) Acetylcholine
 - b) Serotonin
 - c) GABA
 - d) All of the above
 - iv) Which brain area coordinates skeletal muscle movement?
 - a) Cerebrum
 - b) Cerebellum
 - c) Medulla
 - d) Hypothalamus
 - v) The breakdown of large food molecule into smaller molecules is called:
 - a) Excretion
 - b) Digestion
 - c) Absorption
 - d) All of the above
 - vi) Villi are present in
 - a) Heart
 - b) Liver
 - c) Pancreas
 - d) Ileum
 - vii) Islet of Langerhans produces
 - a) Bile
 - b) Trypsin
 - c) Renin
 - d) Insulin
 - viii) In which part of the respiratory system gaseous exchange take place
 - a) Alveoli
 - b) Larynx
 - c) Pharynx
 - d) Trachea
 - ix) The space between the two lungs is called-
 - a) Pleural cavity
 - b) Thoracic space
 - c) Mediastinum
 - d) Pericardial cavity

- x) One of the following is not an energy yielding food
- | | |
|--------------------------|------------|
| a) Carbohydrate | b) Fat |
| c) Vitamine and minerals | d) Protein |
- xi) Trigone is part of
- | | |
|-----------------|------------------|
| a) Renal cortex | b) Renal medulla |
| c) Urethra | d) Bladder |
- xii) Which of the following is not reabsorbed by renal tubules
- | | |
|------------------|---------------------|
| a) Urea | b) Bicarbonate ions |
| c) Hydrogen ions | d) Phosphate ions |
- xiii) Renin is a hormone secreted by the:
- | | |
|-------------|-----------|
| a) Pancreas | b) Kidney |
| c) Liver | d) Ovary |
- xiv) Medulla and cortex are the parts of endocrine system-
- | | |
|--------------|----------------|
| a) Pituitary | b) Thymus |
| c) Adrenal | d) Pineal body |
- xv) Deficiency of which of the following hormones produces cretinism
- | | |
|-----------------|--------------------|
| a) Adrenaline | b) Growth hormones |
| c) Parathormone | d) Thyroxine |
- xvi) Innermost layer of the uterus is-
- | | |
|----------------|----------------|
| a) Endometrium | b) Perimetrium |
| c) Myometrium | d) Endopelvic |
- xvii) Nourishment to the development cells in the testes is provided by
- | | |
|------------------------|---------------------|
| a) Sertoli cell | b) Leydig's cells |
| c) Germinal epithelium | d) All of the above |
- xviii) Sparmiogenesis is undergone by-
- | | |
|------------------------|--------------------------|
| a) Spermatids | b) Spermatogonia |
| c) Primary spermocytes | d) Secondary spermocytes |
- xix) Hormone which helps in production of milk is-
- | | |
|--------------|-------------|
| a) FSH | b) LH |
| c) Prolactin | d) Oxytocin |
- xx) Which of the following statement is true about the chromatin composition
- | | |
|--------------------|---------------------------|
| a) DNA | b) RNA |
| c) DNA and protein | d) DNA, RNA and proteins. |

2. Solve the following **any two**.

**10x2
=20**

- a) Write the structure and function of stomach. Explain in detail acid production in the stomach.

- b) Draw well labelled diagram of brain and explain its different parts.
- c) Explain in detail various phases of menstrual cycle.

3. Solve the following **any seven.**

**5x7
=35**

- a) Write detail about the functions of liver?
- b) Draw a neat labelled diagram of T.S. of spinal cord and explain internal structure of spinal cord.
- c) Explain inspiration and expiration process of respiration.
- d) Explain in detail about Thyroid gland.
- e) Discuss the physiology of urine formation?
- f) Write a note on chromosome.
- g) Explain the concept in details 'action potential'?
- h) Draw a neat labelled diagram of kidney. Write the function of the kidney.
- i) Draw structure of sperm and process of spermatogenesis.
