

**341151(41)**

**B Pharmacy (First Semester) Examination**

**Nov.-Dec. 2019**

**(PCI Scheme)**

**(Pharmacy Branch)**

**HUMAN ANATOMY & PHYSIOLOGY - I**

**Theory (BP101T)**

**Time Allowed : Three hours**

**Maximum Marks : 75**

**Note : Attempt questions of all sections as directed.**

**Section - A**

**(Multiple Choice Questions)**

**Note : Attempt all questions from MCQs. All questions carry 01 mark each.**

**I. Choose the correct answer :**

**341151(41)**

(i) This plane divides the body into cranial and caudal (head and tail) portions :

- (a) Sagittal
- (b) Transverse
- (c) Midsagittal
- (d) Frontal

(ii) This term refers to lying with the face upward or on the dorsal surface :

- (a) Supine
- (b) Prone
- (c) Inferior
- (d) Peripheral

(iii) Nerve cell does not divide because of lack of :

- (a) Nucleus
- (b) Golgi body
- (c) Mitochondria
- (d) Centrosome

(iv) Node of Ranvier is present in .....

- (a) Muscle bundles
- (b) Dendrites

**341151(41)**

- (c) Right auricles
- (d) Axons
- (v) In the PNS, the neuroglial cell that form protective myelin sheaths are .....
  - (a) Microglia
  - (b) Ganglionic cells
  - (c) Oligodendro cytes
  - (d) Schwann cells
- (vi) During the propagation of a nerve impulse, the action potential results from the movement of :
  - (a) Na<sup>+</sup> ions from extracellular fluid to intracellular fluid
  - (b) K<sup>+</sup> ions from extracellular fluid to intracellular fluid
  - (c) Na<sup>+</sup> ions from intracellular fluid to extracellular fluid
  - (d) K<sup>+</sup> ions from intracellular fluid to extracellular fluid
- (vii) Neuroglial cell support and protect :
  - (a) Muscle cells
  - (b) Glands

- (c) Neurons
- (d) Nephrons
- (viii) ..... connect the ends of bones together.
  - (a) Ligaments
  - (b) Tendons
  - (c) Muscles
  - (d) Cartilages
- (ix) Total number of bones in human skull are :
  - (a) 30
  - (b) 22
  - (c) 25
  - (d) 106
- (x) One of the following is not a biological function of skeleton :
  - (a) Support
  - (b) Storage
  - (c) Excretion
  - (d) Movement
- (xi) Which of the following is the smallest muscle in human body?

- (a) Stapedius
  - (b) Sartorius
  - (c) Stapes
  - (d) Mandibular
- (xii) Hormone responsible for the secretion of milk after parturition :
- (a) ICSH
  - (b) Prolactin
  - (c) ACTH
  - (d) LH
- (xiii) Which one of the following secreted by posterior pituitary regulates water retention by the kidneys?
- (a) Antidiuretic hormone
  - (b) Aldosterone
  - (c) Thyroxine
  - (d) Erythropoietin
- (xiv) In male sex hormones that maintains sexual organs and secondary sex characteristics is :
- (a) Progesterone
  - (b) Estrogen

- (c) Testosterone
  - (d) Retxin
- (xv) The endocrine gland which contributes to setting the body's biological clock is the .....
- (a) Pituitary gland
  - (b) Pincal gland
  - (c) Thymus gland
  - (d) Thyroid gland
- (xvi) Colour blindness is due to defect in .....
- (a) Cones
  - (b) Rods
  - (c) Rods and cones
  - (d) Rhodospin
- (xvii) Eustachian tube connects .....
- (a) Pharynx with middle ear
  - (b) Middle ear with external ear
  - (c) Middle ear with internal ear
  - (d) External ear with internal ear
- (xviii) Sense of smell is perceived by .....
- (a) Pituitary

- (b) Hypothalamus
- (c) Olfactory lobe
- (d) Cerebrum

(xix) Which membrane connects tongue to the bottom of the mouth?

- (a) Frenulum
- (b) Septum
- (c) Lingual wall
- (d) Barrier reff

(xx) Bulk uptake of liquid is an example of

- (a) Phagocytosis
- (b) Pinocytosis
- (c) Exocytosis
- (d) Endocytosis

**Section - B**

**(Long Answer Type Question) 2×10=20**

*Note : Attempt any two questions. Each question carries 10 marks.*

2. Classify tissues. Write detailed note on connective tissue.
3. Describe structure and function of brain.

4. Enumerate the secretion of endocrine glands? Discuss thyroid gland in detail.

**Section - C**

**(Short Answer Type Question) 7×5=35**

*Note : Attempt any Seven questions. Each question carry 5 marks.*

5. Draw neat and labelled diagram of human cell.
6. Discuss general principles of cell communication.
7. Write note on physiology of muscle contraction.
8. Classify joints and discuss type of synovial with suitable examples.
9. Define a neuroglial cells? Describe type of neuroglial cells.
10. Write origin and function of cranial nerves.
11. Draw neat and labelled diagram of eyes.
12. Discuss physiology of ear with the help of structure.
13. Write secretions and functions of adrenal gland.