

341151(41)

**B. Pharmacy (First Semester) Examination,
April-May 2020**

(PCI Scheme)

(Branch : Pharmacy)

HUMAN ANATOMY and PHYSIOLOGY-I

Theory (BP101T)

Time Allowed : Three hours

Maximum Marks : 75

Note : Attempt all the questions.

1. Solve the following multiple choice questions : 20×1=20

(i) Which of the following is not a part of axial skeletal system?

(a) Ribs

- (b) Humerus
 - (c) Skull
 - (d) Sternum
- (ii) Sebaceous gland is present in :
- (a) Eye
 - (b) Ear
 - (c) Nose
 - (d) Skin
- (iii) The science of body function is called as :
- (a) Anatomy
 - (b) Physiology
 - (c) Pathology
 - (d) Epidemiology
- (iv) Smooth endoplasmic reticulum synthesizes :
- (a) Protein
 - (b) ATP
 - (c) Nucleotide
 - (d) Fatty acids and steroids

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- (v) Which of the following is an example of connective tissue?
- (a) Muscle
 - (b) Intestine
 - (c) Blood
 - (d) Nerves
- (vi) Passive movement of solvent through a semi-permeable membrane is :
- (a) Osmosis
 - (b) Diffusion
 - (c) Phagocytosis
 - (d) Pinocytosis
- (vii) How many vertebrae are present in lumber region of vertebrae column?
- (a) 5
 - (b) 12
 - (c) 1
 - (d) 7

- (viii) The direction of body indicating nearer to or at the front of body is :
- (a) Superior
 - (b) Inferior
 - (c) Anterior
 - (d) Posterior
- (ix) The neurotransmitter released in neuromuscular junction is :
- (a) Nor-adrenaline
 - (b) Acetyl choline
 - (c) Dopamine
 - (d) Actin-myosin
- (x) Synonym of afferent nerve is :
- (a) Sympathetic nerve
 - (b) Parasympathetic nerve
 - (c) Sensory nerve
 - (d) Motor nerve
- (xi) Resting membrane potential of neuron is :

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- (a) - 70 mV
 - (b) - 120 mV
 - (c) 70 mV
 - (d) 120 mV
- (xii) Which of the following is an endocrine gland?
- (a) Mucus gland
 - (b) Pituitary gland
 - (c) Sudoriferous gland
 - (d) Sebaceous gland
- (xiii) Transmission of impulse across synapse is :
- (a) Chemical
 - (b) Electrical
 - (c) Physical
 - (d) Megnatic
- (xiv) Which bone is also known as collar bone?
- (a) Scapula
 - (b) Sternum

- (c) Radius
- (d) Clavicle

- (xv) Temperature regulating centre is present in :
 - (a) Cerebrum
 - (b) Cerebellum
 - (c) Thalamus
 - (d) Hypothalamus

- (xvi) Hormones act through ;
 - (a) Receptor
 - (b) Enzymes
 - (c) Carrier proteins
 - (d) Pumps

- (xvii) The perfectly transparent part of eye is :
 - (a) Lens
 - (b) Pupil
 - (c) Iris
 - (d) Retina

(xviii) Cortisol is secreted by :

- (a) Pienal gland
- (b) Pancrease
- (c) Pituitary gland
- (d) Adrenal gland

(xix) Pheochromocytoma is the cancer of :

- (a) Parathyroid gland
- (b) Adrenal gland
- (c) Pancrease
- (d) Thymus

(xx) Movement of bone away from the midline is called as :

- (a) Adduction
- (b) Abduction
- (c) Flexon
- (d) Circumduction

2. Solve any two of the following ; $2 \times 10 = 20$

- (i) Discuss the process of transportation across cell membrane.

- (ii) What is action potential? Explain its generation and propagation.
- (iii) Classify different joints with their structures and functions.

3. Write the answer of the following questions : (any seven)

7×5=35

- (i) Write the functions of various parts of brain.
- (ii) Draw a well labelled diagram of skin.
- (iii) Define and classify various tissues in detail.
- (iv) Explain the process of reflex action.
- (v) Discuss any one disorder of pancreas.
- (vi) Describe the physiology of muscle contraction.
- (vii) Discuss the composition and function of cerebro-spinal fluid.
- (viii) Define hormone. Classify hormones with their function in brief.
- (ix) Draw a neat and labelled diagram of ear and describe functions of its different parts.
- (x) Organize the peripheral nervous system. Write the functional role of sympathetic nervous system.