

Printed Pages- 9

Roll No.

341151(41)

**B. Pharmacy (First Semester) Examination,
Nov.-Dec. 2020**

(PCI Scheme)

(Pharmacy Branch)

HUMAN ANATOMY and PHYSIOLOGY-I

Time Allowed : Three hours

Maximum Marks : 75

Note : Question paper is of three parts i.e. (A), (B) and (C). Part A consists of 20 MCQs each of 1 mark. All questions are compulsory. Part B consists of 3 long answer questions of which attempt any two. Each of 10 marks. Part C consists of 9 short answer questions, attempt any seven questions. Each of 5 marks.

Part-A

(Objective Type Questions) 20×1=20

Note : Attempt all questions, each carries 1 mark.

1. Multiple Choice Questions (MCQs) :

341151(41)

PTO

[2]

- (i) Which of the following is referred to the study of the blood vessels?
- (a) Hematology
 - (b) Serology
 - (c) Angiology
 - (d) Cardiology
- (ii) Which of the following is known as powerhouse of the cell?
- (a) Nucleus
 - (b) Golgi bodies
 - (c) Ribosomes
 - (d) Mitochondria
- (iii) Duplication of the chromosomes occurs in which of the following phase of cell division :
- (a) S phase
 - (b) G1 phase
 - (c) Prophase
 - (d) G2 phase

[3]

- (iv) Which of the following is not the primary germ layer :
- (a) Mesoderm
 - (b) Ectoderm
 - (c) Endoderm
 - (d) Protoderm
- (v) Callus is formed due to abnormal thickening of which of the following :
- (a) Stratum spinosum
 - (b) Stratum granulosum
 - (c) Stratum lucidum
 - (d) Stratum corneum
- (vi) Which is the only movable bone of the skull?
- (a) Frontal bone
 - (b) Mandible
 - (c) Temporal bone
 - (d) Maxilla
- (vii) How many bones are there in the human skeleton?
- (a) 206 bones

[4]

- (b) 302 bones
 - (c) 211 bones
 - (d) 106 bones
- (viii) Peripheral nervous system does not include
- (a) Spinal cord
 - (b) Cranial nerves
 - (c) Ganglia
 - (d) Spinal nerves
- (ix) of the brain regulates posture and balance.
- (a) Cerebrum
 - (b) Cerebellum
 - (c) Diencephalon
 - (d) Midbrain
- (x) The color of eye depends upon the color of the
- (a) Choroid
 - (b) Sclera

[5]

- (c) Iris
 - (d) Cornea
- (xi) All are the parts of an eye except
- (a) Cornea
 - (b) Pupils
 - (c) Lens
 - (d) Stapes
- (xii) Which of the hormone is responsible for the secretion of milk after parturition?
- (a) ICSH
 - (b) Prolactin
 - (c) ACTH
 - (d) LH
- (xiii) "Organ of Corti" is a component of
- (a) Inner ear
 - (b) Middle ear
 - (c) External ear
 - (d) Nasal chamber

[6]

(xiv) Hormone are :

- (a) Enzymes
- (b) Organic chemicals
- (c) Proenzymes
- (d) Inorganic chemicals

(xv) Which gland disappears in the adult but is active during childhood?

- (a) Adrenal cortex
- (b) Hypothalamus
- (c) Thymus
- (d) Parathyroid

(xvi) Which system produces the renin hormone?

- (a) Liver
- (b) Pancrease
- (c) Ovary
- (d) Kidney

(xvii) Which hormone deficiency produces cretinism?

- (a) Growth hormone

[7]

(b) Thyroxine

(c) Parathormone

(d) Oxytocin

(xviii) The function(s) of integumentary system includes :

(a) Excretory

(b) Sensory

(c) Protectives

(d) All of the above

(xix) Colour blindness is caused due to defect in

(a) Rods

(b) Cones

(c) Rhodospin

(d) Rods and Cones

(xx) The vertical plane that divides the body or an organ into right and left sides :

(a) Oblique plane

(b) Frontal plane

(c) Sagittal plane

(d) Transverse plane

[8]

Part-B

(Long Answer Type Questions) $2 \times 10 = 20$

*Note : Attempt any two questions out of 3 questions.
Each question carries 10 marks.*

2. Write structure and function of the skin.
3. Differentiate between the structure and functions of sympathetic and parasympathetic nervous system.
4. Explain the mechanism of the hormone action. Describe the structure and functions of the pituitary gland.

Part-C

(Short Answer Type Questions) $7 \times 5 = 35$

Note : Attempt any seven questions out of nine questions. Each question carries 5 marks.

5. Write notes on the scope of anatomy and physiology.
6. Briefly describe the different form of intracellular signaling.

[9]

7. Write notes on physiology of muscle contraction.
8. Define different types of tissues. What are the functions of connective tissues?
9. Explain different types of joints movements.
10. Draw structure of the eye and elaborate the functions of different parts of the eye.
11. Write notes on special senses.
12. Describe the structure and functions of pancreas.
13. Structure and functions of cerebrum and cerebellum.