

Section B

Short answer type questions (answer any 7 questions from question no. 2 to 10)

5x7=35

- Q.2 Write a short note on basic life processes.
- Q.3 Write short note on cell division.
- Q.4 Give physiology of muscle contraction in short.
- Q.5 Define joint. Explain various movements in short.
- Q.6 Write a short note on electrophysiology?
- Q.7 Draw a neat and clean diagram of ear with proper labelling.
- Q.8 Write short note on cranial nerve.
- Q.9 Explain mechanism of hormone action in short.
- Q.10 Write short note on hormones secreted by adrenal glands.

Section C

Long answer type questions (answer any 2 questions from question no. 11 to 13)

10x2=20

- Q.11 Draw a neat and clean diagram of cell and also explain various organelle in detail.
- Q.12 Explain structure and functions of brain in detail.
- Q.13 Draw a neat and clean diagram of eye and also explain physiology of sight in detail.

**B. Pharmacy 1st Semester-2020
Human Anatomy and Physiology-I**

Time: Three hours

M. Marks: 75

Section-A
Multiple Choice Questions- Attempt all questions

Q.1 **Attempt all 20 questions; 1 mark each.**

1. Which plane divides the body into dorsal and ventral regions?
(i) Transverse (ii) Axial (iii) Coronal (iv) Sagittal
2. The directional term "superior" in anatomy means which of the following?
(i) Cephalic (ii) Ventral (iii) Caudal (iv) Dorsal
3. What is the study of how body parts function called?
(i) Histology (ii) Physiology (iii) Homeostasis (iv) Metabolism
4. Which structure separates the thoracic cavity from the abdominal cavity?
(i) The mediastinum (ii) The diaphragm (iii) The peritoneum (iv) The pylorus
5. Movement of substances from high concentration to low concentration is called
(i) Active transport (ii) Passive transport (iii) Cellular energy (iv) Pinocytosis
6. Which of the following is NOT a type of connective tissue.
(i) Areolar (ii) Adipose (iii) Bone (iv) Glandular
7. Which of the following is not a phase of mitosis.
(i) Interphase (ii) Prophase (iii) Metaphase (iv) Telophase
8. Organelles are found suspended in the
(i) Plasma membrane (ii) Chromatin (iii) Nucleotide (iv) Cytoplasm
9. Sebaceous glands secrete
(i) Oil (ii) Salty sweat (iii) water (iv) Melanin
10. The outermost layer of the skin is
(i) Dermis (ii) Epidermis (iii) Hypodermis (iv) None of these
11. Which of the following vitamins is synthesized in the skin?
(i) Vitamin A (ii) Vitamin D (iii) Vitamin E (iv) Vitamin K
12. Skin colour is determined by which pigment?
(i) Carotene (ii) Melanin (iii) Haemoglobin (iv) None of these
13. Which of the following is not a cranial bone
(i) Frontal (ii) Temporal (iii) Maxilla (iv) Occipital
14. How many bones make up the cranium?
(i) 10 (ii) 6 (iii) 8 (iv) 4
15. Hunger, thirst is controlled by:
(i) Cerebrum (ii) Hypothalamus (iii) Cerebellum (iv) Medulla oblongata
16. Each cerebral hemisphere is divided into how many lobes?
(i) 2 (ii) 3 (iii) 4 (iv) 5
17. In the eye, light rays are refracted onto:
(i) The cornea (ii) The lens (iii) The retina (iv) The blind spot
18. Which of the following is not an anatomical structure of the ear?
(i) Tympanic membrane (ii) Olfactory organs (iii) Semi-circular canals (iv) Cochlea
19. Glucagon is produced in the pancreas by which cells?
(i) Alpha cells (ii) Beta cells (iii) Delta cells (iv) F cells
20. Which hormone is secreted in response to high blood glucose?
(i) Insulin (ii) Glucagon (iii) Cortisol (iv) Oxytocin

1x20=20

PTO for the remaining questions