

PARUL UNIVERSITY
FACULTY OF PHARMACY
D. Pharm., MAY-2022 Examination

Year: 1

Subject Code: ER20-14T

Subject Name: Human Anatomy & physiology

Date: 19/05/2022

Time: 10:00am to 01:00pm

Total Marks: 80

Instructions:

1. Figures to the right indicate maximum marks.
2. Make suitable assumptions wherever necessary.

Q.1 Multiple Choice Questions (MCQs) (1 Mark Each)**(20)**

1. The basic living unit of all organisms is the _____.
(a) Tissue (b) Organ
(c) Cell (d) Bone
2. Dense connective tissue contains _____.
(a) Collagen fibers (b) Keratin
(c) Squamous cells (d) Cuboidal cells
3. Skin is the largest organ of body
(a) True (b) False
4. Ribosome helps in _____.
(a) Photosynthesis (b) Protein synthesis
(c) Respiration (d) None of the above
5. The outer most layer of human cell is cell membrane
(a) True (b) False
6. Which of the following is known as Power house of cell?
(a) Cell membrane (b) Mitochondria
(c) Lysosomes (d) Ribosomes
7. Which of the following gives motion, posture and protection?
(a) Smooth muscles (b) Skeletal muscles
(c) Cardiac tissue (d) Nervous tissue
8. Fat is stored in _____ connective tissue
(a) Adipose tissue (b) Areolar tissue
(c) Elastic connective tissue (d) Reticular connective tissue
9. What is found in blood serum that is also in blood plasma?
(a) Blood cells (b) Platelets
(c) Plasma proteins (d) Lymphocytes
10. General functions of lymphatic systems include _____.
(a) Fluid and nutrient transport (b) The immune response
(c) Lymphocyte development (d) All of the above
11. The name of valve between left atrium and left ventricle is mitral valve
(a) True (b) False
12. What term is applied to the exchange of dissolved gases between capillary blood and body tissues?
(a) Internal respiration (b) External respiration
(c) Ventilation (d) Tidal volume
13. In stomach, Zymogenic cells produce hydrochloric acid?
(a) True (b) False
14. Which part of our ear is shaped like a snail shell?
(a) Cochlea (b) Ear drum
(c) Eustachian tube (d) All of the above
15. Where do we find rod cells and cone cells in eye?
(a) Retina (b) Choroid
(c) Sclera (d) None of the above

16. _____ is not endocrine gland
(a) Adrenal (b) Pituitary
(c) Thyroid (d) Lacrimal
17. Stratum corneum is composed of _____
(a) Hepatic cells (b) Keratin cells
(c) Melanocytes (d) Osteocytes
18. Nephron has _____ in its structure
(a) Bowman's capsule (b) Loop of Henle
(c) Proximal convoluted tubule (d) All of the above
19. Neurons are part of _____ system
(a) Respiratory (b) Cardiovascular
(c) Endocrine (d) Nervous
20. Arteries carry _____ blood
(a) Oxygenated (b) Deoxygenated

Q.2 Short Answers (Answer 10 out of 11) (3 Mark Each)

(30)

1. Write in short about connective tissue.
2. Write a note on cell.
3. Write a note on Pituitary gland
4. Draw labelled diagram of eye
5. Write a note on pancreas.
6. Write about the layers of GIT.
7. Explain the basic unit of Skeletal muscle and draw a labelled diagram of it.
8. Write a note on neuron.
9. What you mean by ECG? Write a note on it
10. Write down physiology of hearing.
11. Write in brief about nephron.

Q.3 Long Answers (Answer 6 out of 7) (5 Mark Each)

(30)

1. Write a note on Homeostasis
2. Draw labelled diagram of spleen and explain its functions.
3. Enlist types of blood cells and write a note on functions of blood cells
4. Write a short note on Mechanism of respiration
5. Write down mechanism of urine formation
6. Draw labelled diagram of skin and explain it
7. Write a note on Renin Angiotensin Aldosterone System (RAAS)