

PARUL UNIVERSITY
FACULTY OF PHARMACY
D.Pharm. May - 2018 Examination

Year: 1**Subject Code: 08600105****Subject Name: Human Anatomy and Physiology****Date: 23/05/2018****Time: 10:00 am to 1:00 pm****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 voice box is known as

A) Alveoli	C) Larynx
B) Trachea	D) Motormouth
2. The basic functional unit of human kidney is

A) Henle's loop	C) Nephridia
B) Nephron	D) Pyramid
3. The blood vessels having the most elastic tissue are

A) Capillaries	C) Lymphatics
B) Veins	D) Arteries
4. _____ Organelle is referred as Power House of cell

A) Nucleus	C) Mitochondria
B) Endoplasmic reticulum	D) lysosome
5. Which term means toward or at the back of the body, behind?

A) anterior	C) distal
B) lateral	D) dorsal
6. Response to light leading to vision is initiated in which of the following cells

A) retinal pigment epithelial cells	C) rod cells
B) both rods and cones	D) Cone cells
7. Myology define as _____.

A) Study of bones	C) Study of Muscles
B) Study of tissues	D) Study of blood vessel
8. To initiate and accomplish inspiration in humans, which of the following occurs

A) Pacemaker cells in the lungs are activated	C) Lungs and chest wall pull apart from each other
B) Muscles cause the ribs to move closer to the spinal cord	D) The diaphragm contracts and moves into the abdominal cavity
9. _____ cavities are spaces within joints

A) Nasal	C) Synovial
B) Orbital	D) Oral
10. The normal life span of erythrocytes is about

A) Erythropoiesis	C) Haemolysis
B) Haemopoiesis	D) Epiphyses
11. The normal life span of erythrocytes is about

A) 80 days	C) 110 days
B) 90 days	D) 120 days
12. Which type of gland secretes hormones directly into bloodstream

A) Endocrine gland	C) Exocrine gland
B) Serous gland	D) Target gland
13. The system consisting of the heart and blood vessels is called

A) Endocrine system	C) Lymphatic system
B) Nervous system	D) Circulatory system

14. Process of taking food in is called
 A) Distillation C) Absorption
 B) ingestion D) Assimilation
15. Histology would be best defined as a study of _____.
 A) cells C) gross structures of the body
 B) cell chemistry D) tissues
16. Elimination of metabolic wastes from the body is the function of the
 A) urinary system C) lymphatic system
 B) endocrine system D) nervous system
17. Identify the vessel below that is NOT a part of the circulatory system
 A) Artery C) Bronchiole
 B) Capillary D) Vein
18. The “master gland” of endocrine system located at the base of brain, is
 A) Apical gland C) Pituitary gland
 B) Bartholin gland D) Thyroid gland
19. The structure of the male animal that carries both urine and sperm is called
 A) Ureter C) Urethra
 B) Oviduct D) Artery
20. In foetal and embryonic life, red blood cells are formed in
 A) spleen and liver C) liver and kidneys
 B) kidneys and lungs D) pancreas and liver

Q.2 Long Answers (any 8 out of 10) (05 Mark Each)

(40)

1. Write a note on process of blood coagulation and describe factors affecting it.
2. Draw a labeled diagram of male reproductive system describing any two organs in detail.
3. Draw and label the structure of nephron. Describe physiology of urine formation.
4. Define cell. Enumerate various cell organelles. Describe any two of them in detail.
5. Explain various disorders of eye.(any five)
6. Describe briefly on physiology of respiration.
7. Write a note on physiological properties of Skeletal muscle.
8. Enumerate bones of skull with short description of each.
9. Write about salivary glands and stomach.
10. Describe renin angiotensin system for blood pressure regulation in kidney

Q.3 Short Answers (2 Mark Each) (Answer any 10)

(20)

1. Draw and label diagram of spinal cord. Describe its function.
2. What is CSF ? Write its composition. What are its functions.
3. Write short note on Nervous tissue.
4. Write note anaemia and describe its types in detail.
5. Write functions of Skin.
6. Differentiate skeletal muscle, cardiac muscle and visceral muscle. (four point)
7. Explain shortly on Physiology of Muscle Contraction
8. Write the differences between parasympathetic and sympathetic nervous system
9. Write about menstrual cycle
10. Write a note on spleen.
11. Write a short note about teeth & Mastication process
12. Write a short note physiology of pain.