

I B. Pharmacy I Semester Supplementary Examinations, May - 2019
HUMAN ANATOMY & PHYSIOLOGY-I

Time: 3 hours

Max. Marks: 75

- Note: 1. Question paper consists of three parts (**Part-I, Part-II & Part-III**)
 2. Answer ALL (Multiple Choice) Questions from **Part-I**
 3. Answer any **TWO** Questions from **Part-II**
 4. Answer any **SEVEN** Questions from **Part-III**

PART -I

1. (i) Maintenance and regulation of the stability and constancy needed to function properly was termed as (1M)
 (a) Homeostasis (b) Hemopoiesis (c) Stability (d) Hemoptysis
- (ii) Which part of cell structure makes proteins (1M)
 (a) Mitochondria (b) Ribosomes (c) Nucleus (d) Lysosomes
- (iii) The resting membrane potential is mainly determined by (1M)
 (a) K^+ gradient (b) Ca^{2+} gradient (c) Cl^- gradient (d) Na^+ gradient
- (iv) Reabsorption of useful molecules or ions in kidneys occurs through. (1M)
 (a) Diffusion (b) Active Transport (c) Partial Osmosis (d) Differential Osmosis
- (v) Appendicular skeleton contains bones in number (1M)
 (a) 86 (b) 126 (c) 96 (d) 118
- (vi) Which of the following is a contractile protein of a muscle (1M)
 (a) Tubulin (b) Myosin (c) Actin (d) All the above
- (vii) Which of the following is not a structural classification of joints (1M)
 (a) Fibrous (b) Cartilaginous (c) Diarthroses (d) Synovial
- (viii) Intercarpal joints are an example of (1M)
 (a) Plane joint (b) Condylloid Joint (c) Hinge joint (d) Pivot Joint
- (xi) Which of the following diseases is the structure of the hemoglobins that are produced normal but their amount reduced (1M)
 (a) Chronic blood loss (b) Sickle cell anemia
 (c) Hemolytic anemia (d) Thalassemia
- (x) Abnormal or low levels of platelets called as (1M)
 (a) Thalessemia (b) Thrombocytopenia (c) Thrombolysis (d) Thrombophlebitis
- (xi) Which one of the following is not a coagulation factor (1M)
 (a) Fibrinogen (b) Prothrombin (c) Hemophilia A (d) Serine
- (xii) What is shelf life of platelets (1M)
 (a) 10days (b) 5days (c) 28days (d) 12 days
- (xiii) Number of Spinal nerves present in human body are (1M)
 (a) 18 pairs (b) 31pairs (c) 24 pairs (d) 8pairs
- (xiv) Nerve Plexus supplies the abdomen and leg muscles called as (1M)
 (a) Cervical Plexus (b) Lumbar Plexus (c) Sacral plexus (d) Brachial plexus

- (xv) The system which promotes digestion, slows breathing rate and heartbeat is called (1M)
(a) Sympathetic nervous system (b) Prosympathetic nervous system
(c) Prosympathetic nervous system (d) Parasympathetic nervous system
- (xvi) One of the following is not a eye disorder (1M)
(a) Conjunctivitis (b) Glaucoma (c) Cataract (d) Otitis
- (xvii) The middle layer of blood vessel tunica media made with (1M)
(a) Connective tissue (b) Squamous epithelium
(c) Smooth muscle (d) Skeletal muscle
- (xviii) What part of the blood carries minerals, vitamins, sugar, and other foods to the body's cells (1M)
(a) Plasma (b) RBC (c) WBC (d) Platelets
- (xix) In ECG the P wave represents (1M)
(a) Ventricle contraction (b) Depolarization
(c) Ventricle dilation (d) Auricle dilation
- (xx) The deposition of lipid on arterial wall called as (1M)
(a) Stroke (b) Clot (c) Angina (d) Atherosclerosis

PART -II

2. a) Structure and function of connective tissue with diagram. (5M)
b) Write a note on structure and functions of synovial joints. (5M)
3. a) Discuss about mechanism of coagulation. (5M)
b) Write a note on structure of Eye. (5M)
4. a) Explain about anatomy of heart with neat labeled diagram. (5M)
b) Describe the electrocardiogram procedure. (5M)

PART -III

5. Write a note on Paracrine intracellular signaling. (5M)
6. Explain the concept of transport across cell membrane. (5M)
7. What are different types of bones and functions of axial bones? (5M)
8. Write a note on lymphatic organs and circulation of lymph. (5M)
9. Explain the importance of Rh factor and its significance. (5M)
10. Explain about structure and functions of parasympathetic nervous system. (5M)
11. Brief note on disorders of nose. (5M)
12. Write a note on structure and functions of artery. (5M)
13. Explain about regulation of blood pressure. (5M)