



SLR-TA – 1

Seat No.	
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B.Pharmacy (Semester – I) (New CBCS) Examination, 2018
HUMAN ANATOMY AND PHYSIOLOGY – I

Day and Date : Thursday, 3-5-2018
Time : 10.30 a.m. to 1.30 p.m.

Max. Marks : 75

1. Multiple Choice Questions : (20×1=20)

- 1) _____ is the process which converts chemical energy into heat energy.
A) Respiration B) Excretion C) Nutrition D) Transpiration
- 2) _____ membrane surrounded by the lungs.
A) Pericardial B) Mediastinal C) Peritoneal D) Pleural
- 3) _____ is a sesamoid bone.
A) Patella B) Sternum C) Skull D) Pelvis
- 4) _____ joint occurs between radius and ulna.
A) Ball and socket B) Sliding
C) Hinge D) Pivot
- 5) Columnar epithelium tissues are found in
A) Lungs and kidney B) Gall bladder
C) Bronchi D) Abdomen
- 6) The outer layer of the skin is composed of
A) Transitional epithelium
B) Pseudostratified columnar epithelium
C) Stratified squamous epithelium
D) Stratified columnar epithelium
- 7) A thin, semi-transparent, flexible membrane is known as
A) Ear Lobe B) Ear Canal C) Ear Drum D) Pinna
- 8) The inner layer of the wall of the heart is
A) Epicardium B) Myocardium C) Pericardium D) Endocardium
- 9) Sudden closure of AV valves produces
A) Fourth Sound B) First Sound
C) Third Sound D) Second Sound

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- 10) _____ formed by fold of tunica intima.
A) Capillaries B) Arterioles C) Valve D) Septum
- 11) Polymorphonucleocyte means
A) RBCs B) Lymphocyte
C) Neutrophils D) Platelets
- 12) Lymphatic System performs drainage of
A) Interstitial fluid B) Intestinal fluid
C) Plasma D) Blood
- 13) The _____ suture joins the temporal and parietal bones of the skull.
A) Lambdoidal B) Squamosal
C) Coronal D) Sagittal
- 14) Cell drinking is referred as
A) Pinocytosis B) Phagocytosis
C) Endocytosis D) Exocytosis
- 15) The cross bridges involved in muscle contraction is located on the
A) Myosin myofilaments B) Actin myofilaments
C) Tropomyosin D) Dystrophin
- 16) Clumping of cells is known as
A) Clotting B) Agglutination
C) Mutation D) Glutathione
- 17) The _____ receptors are sensitive to taste and smell.
A) Baroreceptor B) Thermoreceptor
C) Chemoreceptor D) None of the above
- 18) If fatty material is deposited in inner side of artery, condition is called as
A) Arteriosclerosis B) Atherosclerosis
C) Thrombosis D) Heart attack
- 19) The major cation in the extracellular fluid is
A) Na⁺ B) K⁺ C) Cl⁻ D) Ca²⁺
- 20) Formation of a local blood clot in an artery is called as
A) Thrombin B) Thrombosis
C) Prothrombin D) Thrombokinase



2. Solve **any two**. **(2×10=20)**
- A) Explain the anatomical features with neat labeled diagram of skin.
 - B) Discuss blood groups and their clinical significance.
 - C) Describe the internal structure of heart and blood circulation through the heart.
3. Solve **any seven**. **(7×5=35)**
- A) Give anatomy and physiology of cell.
 - B) Write a note on nervous and connective tissues.
 - C) Draw a neat labeled diagram of neuromuscular junction and give its functions.
 - D) Define joints. Give structural and functional classification of joints.
 - E) What is anemia ? Describe mechanism of coagulation of blood.
 - F) Write the composition and functions of lymph.
 - G) Draw a neat labeled diagram of spinal cord and enlist cranial nerves.
 - H) Explain conduction system of heart.
 - I) Describe general principles of cell communication.
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