

Please check whether you have got the right question paper.

- N.B:
1. All questions are compulsory.
 2. Answer all sub questions together.
 3. Draw neat labeled diagram wherever necessary.

- Q.1 a) Answer the following. 12**
- i. Classify epithelial issue.
 - ii. Explain the process of pinocytosis
 - iii. Enlist organs of lymphatic system.
 - iv. What is granulocytopenia.
 - v. What is chemotaxis.
 - vi. Explain what isometric & isobaric contraction is.
- b) Answer the following : 03**
- i. Explain what is serum & what is plasma
 - ii. -----neurotransmitter is released at neuromuscular junction.
 - iii. -----fluid is found in joints.
- Q.2 a) Answer any Two of the following. 08**
- i) Explain the process of erythropoiesis in detail.
 - ii) Explain in details about type I & type II hypersensitivity reactions.
 - iii) Write a note on different types of anemia.
- b) Answer any One of the following: 03**
- i) Write a note on Sickle cell anemia.
 - ii) Give functions of WBCs & platelets.
- Q.3 a) Answer any Two of the following: 08**
- i) Explain the structure of skeletal muscle with a neat labeled diagram
 - ii) Compare & contrast between skeletal & smooth muscle.
 - iii) Write a note on Neuromuscular junction.
- b) Answer any One of the following. 03**
- i) Explain the process of transcytosis
 - ii) Explain the structure of sarcomere.
- Q.4 a) Answer any TWO of the following. 08**
- i) Explain the histology & function of spleen in brief.
 - ii) Write a note on flow of lymph
 - iii) Write a note on Grave's disease.

- b) Answer any ONE of the following** **03**
- i) Classify & give functions of connective tissue.
 - ii) Write a note on adipose tissue.
- Q.5 a) Answer any TWO of the following.** **08**
- i) Explain the role of integral proteins & cholesterol in plasma membrane.
 - ii) With a neat labeled diagram, explain the structure of cardiac muscle.
 - iii) Differentiate between active & passive transport processes.
- b) Answer any ONE of the following.** **03**
- i) Explain the role of histamine in inflammatory reaction.
 - ii) Explain in brief mechanism involved in increase in vascular permeability during inflammation
- Q.6 a) Answer any TWO of the following.** **08**
- i) Explain the process of blood coagulation.
 - ii) Classify WBC's give its normal count & explain in what conditions its number increase & decreases.
 - iii) Write a note on blood group's & explain what is erythroblastosis fetalis.
- b) Answer any ONE of the following.** **03**
- i) Explain the process of phagocytosis
 - ii) Describe the features of chronic inflammation.