

August - 2009

[KV 871]

Sub. Code: 5001

B.Sc. (Medical Laboratory Technology) DEGREE EXAMINATION

FIRST YEAR

Paper I – HUMAN BIOLOGY

Q.P. Code : 725001

Time : Three hours

Maximum : 100 marks

Answer All questions.

I. Essays :

(2X15=30)

1. Draw the digestive system and label the parts. Explain the composition, function and secretion of gastric juice. **(4+3+8)**

2. What is Haemopoiesis? Describe the stages in Erythropoiesis. **(5+10)**

II. Write Short Notes on :

(10X5=50)

1. Types of Cartilage.
2. Functions of saliva.
3. Blood groups.
4. Heart and its chamber.
5. Hormones secreted by anterior pituitary.
6. Name the parts of the Brain.
7. Spermatogenesis.
8. Structure and functions of skin.
9. Nephron and its functions.
10. Write about respiratory passage, draw and label the diagram.

III. Short Answer Questions:

(10X2=20)

1. What is lysosome and enumerate two of its functions.
2. Name two functions of cell membrane.
3. Mention two mechanisms by which heat loss takes from the body.
4. Name the types of lymphocytes. What are the two types of immunity produced by them?
5. What are anticoagulants? Mention two of their uses?
6. Define Landsteiner's law?
7. What is erythroblastosis foetalis?
8. What is meant by polycythemia? Name the types of polycythemia.
9. What is Leucocytosis? Give two physiological conditions where leucocytosis is found.
10. Define erythrocyte sedimentation rate and its normal value. Name two conditions where ESR is increased.
