

August-2008

**[KT 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 : (2 × 15 = 30)
- (1) Describe in detail the location, structure, hormones secreted by the thyroid gland and their functions. Add a note on Cretinism. (2 + 2 + 1 + 5 + 5)
- (2) Describe structure of the heart and the origin and conduction of heart beat. (8 + 7)
- II. Write short notes on : (10 × 5 = 50)
- (1) Structure of nephron
- (2) Menstrual cycle
- (3) Rh factor

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- (4) Mendel's theory of inheritance
  - (5) Functions of cerebrum
  - (6) Formation and functions of lymph
  - (7) Name the hormones secreted by Anterior and posterior pituitary gland
  - (8) Physiology of digestion in stomach
  - (9) Mechanism of inspiration
  - (10) Functions of WBC.
- III. Short answer questions : (10 × 2 = 20)
- (1) Mention the functions of mitochondria?
  - (2) Mention the different types of muscles
  - (3) List the exocrine secretions of the stomach?
  - (4) What is the composition of saliva?
  - (5) Name the enzymes present in pancreatic juice that helps protein digestion.
  - (6) List any four functions of liver.
  - (7) Enumerate the functions of bile
  - (8) Name the respiratory centres.
- (9) Mention the names of the four valves of the heart.
- (10) Tell two special features of pulmonary circulation.