

NOVEMBER 2003

[KJ 871]

Sub. Code : 5001

B.Sc. (MEDICAL LABORATORY TECHNOLOGY)  
DEGREE EXAMINATION.

Paper I -- HUMAN BIOLOGY

Time : Three hours      Maximum : 100 marks

Two hours and Forty minutes  
for Sec. A & Sec. B      Sec. A & Sec. B : 80 marks

Twenty minutes for Sec. C      Section C : 20 marks

Answer Sections A and B in **SAME** Answer Book.

Answer Section C in the Answer Sheet provided.

SECTION A -- (2 × 15 = 30 marks)

1. Describe the anatomy of the heart. Detail the physiology of the systemic and pulmonary circulations.

(15)

2. Define the terms 'hormone' and 'endocrine'. Name the endocrine glands in your body and the hormones secreted by each. Elucidate the actions of adrenal hormones.  
(2 + 6 + 7)

SECTION B -- (10 × 5 = 50 marks)

3. Write short notes on :

- (a) Bone tissue
- (b) HLA system
- (c) Location and functions of lymph nodes
- (d) Functions of liver
- (e) Disaccharidase enzymes
- (f) Malpighian corpuscle of nephron
- (g) Mechanics of ventilating the lungs
- (h) Ovulation, fertilisation and conception
- (i) Regulation of body temperature
- (j) Parts of brain stem.