

[LB 0212]

AUGUST 2012

Sub. Code: 5001

B.Sc. MEDICAL LABORATORY TECHNOLOGY

FIRST YEAR

PAPER I – HUMAN BIOLOGY

Q.P. Code : 725001

Time : Three hours

Maximum : 100 marks

(180 Mins) Answer ALL questions in the same order.

I. Elaborate on:

Pages Time Marks
(Max.)(Max.) (Max.)

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|---|---|----|----|
| 1. Composition of blood and its functions. | 7 | 20 | 10 |
| 2. Describe the anatomy of the kidney and mechanism of urine formation. | 7 | 20 | 10 |
| 3. Describe the anatomy of the stomach and its functions. | 7 | 20 | 10 |

II. Write notes on:

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|--|---|----|---|
| 1. Menstrual cycle. | 4 | 10 | 5 |
| 2. Functions of bile. | 4 | 10 | 5 |
| 3. Describe in brief the anatomy of the lung. | 4 | 10 | 5 |
| 4. Write briefly about formation and circulation of Cerebrospinal fluid. | 4 | 10 | 5 |
| 5. Pulmonary function tests. | 4 | 10 | 5 |
| 6. Hormones secreted by the pituitary gland. | 4 | 10 | 5 |
| 7. Micturition reflex. | 4 | 10 | 5 |
| 8. Functions of skin. | 4 | 10 | 5 |

III. Short answers on:

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|--|---|---|---|
| 1. Diabetes mellitus. | 2 | 4 | 3 |
| 2. Describe three functions of the cerebellum. | 2 | 4 | 3 |
| 3. Mention three conditions where Erythrocyte sedimentation rate is increased. | 2 | 4 | 3 |
| 4. Name the chambers and valves of heart. | 2 | 4 | 3 |
| 5. Jaundice. | 2 | 4 | 3 |
| 6. What is the normal heart rate and mention any two conditions where heart rate is increased. | 2 | 4 | 3 |
| 7. Functions of mitochondria. | 2 | 4 | 3 |
| 8. Types of bones. | 2 | 4 | 3 |
| 9. Blood brain barrier. | 2 | 4 | 3 |
| 10. Diaphragm. | 2 | 4 | 3 |
