

[LB 653]

AUGUST 2012

Sub. Code: 4132

FIRST YEAR B.D.S. DEGREE EXAM

PAPER II – HUMAN PHYSIOLOGY AND BIOCHEMISTRY

Q.P.Code: 544132

Time: 180 Minutes

Maximum: 100 Marks

Answer ALL questions in the same order

Draw Suitable diagrams wherever necessary

Answer Section A and B in Separate Answer Books

SECTION –A

(HUMAN PHYSIOLOGY)

I. Elaborate on:

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

- | | | | |
|--|----|----|----|
| 1. Define Erythropoiesis. Discuss in detail the factors affecting erythropoiesis. Add a note on anaemia. | 19 | 30 | 20 |
|--|----|----|----|

II. Write Notes on:

- | | | | |
|---|---|----|---|
| 1. Juxta – glomerular apparatus (JGA). | 3 | 10 | 5 |
| 2. Hormones and their actions of posterior pituitary. | 3 | 10 | 5 |
| 3. Functions of bile. | 3 | 10 | 5 |
| 4. Structure of platelets. | 3 | 10 | 5 |
| 5. Oxygen – hemoglobin dissociation curve. | 3 | 10 | 5 |
| 6. Active transport across the cell membrane. | 3 | 10 | 5 |

SECTION –B

(BIOCHEMISTRY)

I. Elaborate on:

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|--|----|----|----|
| 1. What are water soluble vitamins? Discuss the Chemistry, Sources, requirements functions and deficiency manifestations of Vitamin C. | 19 | 30 | 20 |
|--|----|----|----|

II. Write Notes on:

- | | | | |
|-----------------------------------|---|----|---|
| 1. Essential fatty acids. | 3 | 10 | 5 |
| 2. GTT. | 3 | 10 | 5 |
| 3. Maintenance of plasma calcium. | 3 | 10 | 5 |
| 4. Liver function test. | 3 | 10 | 5 |
| 5. Gout. | 3 | 10 | 5 |
| 6. Urea Cycle. | 3 | 10 | 5 |
