

[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.)**

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

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|---|---|----|---|
| 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 |
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II. Write Notes on:

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| 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 |
