

August 2010

[KX 653]

Sub. Code: 4132

**FIRST B.D.S DEGREE EXAMINATION**

(Modified Regulations – III)

**Paper II – HUMAN PHYSIOLOGY AND BIOCHEMISTRY***Q.P. Code: 544132***Time: Three hours****Maximum: 100 Marks****Answer Section A & B in SEPARATE Answer Books.****Answer ALL Questions****SECTION A****(HUMAN PHYSIOLOGY)****I. Essay:****1 x 20 = 20 Marks**

1. Enumerate the Plasma proteins giving their normal values. Describe their functions. Add a note on Oedema.

**II. Write Short Notes on:****5 x 6 = 30 Marks**

1. Functions of Cerebellum.
2. Immunological Test for Pregnancy diagnosis.
3. Pulmonary alveolar ventilations.
4. Features of diabetes mellitus.
5. Ventricular systole.

**SECTION B  
(BIOCHEMISTRY)****I. Essay:****1 x 20 = 20 Marks**

1. How is Glucose metabolized under Aerobic and Anaerobic conditions? How much energy is generated and its regulation?

**II. Write Short Notes on:****5 x 6 = 30 Marks**

1. Fatty acid synthesis.
2. Liver function tests.
3. Role of bicarbonate as a buffer.
4. Enzyme inhibition.
5. Uncouplers of oxidative phosphorylation.

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