

August 2010

[KX 702]

Sub. Code:4169

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

(Regulations for the candidates admitted from 2008-09 onwards)

**Paper II – GENERAL HUMAN PHYSIOLOGY AND BIOCHEMISTRY**

*Q.P. Code: 544169*

**Time: Three hours**

**Maximum: 70 Marks**

**Answer Section A & B in SEPARATE Answer Books.**

**Answer ALL Questions**

**SECTION A**

**(HUMAN PHYSIOLOGY)**

**I. Essay:** **1 x 15 = 15 Marks**

1. How are Leucocytes classified? Describe the morphology properties and functions of each type of Leucocyte.

**II. Write Short Notes on:** **2x 5 = 10 Marks**

1. Functions of Thalamus.
2. Electrocardiogram.

**III. Short Answers questions:** **5 x 2 = 10 Marks**

1. Why the lactating female does not menstruate?
2. Name the major anions and cations in intracellular and extracellular fluids.
3. Artificial Respiration.
4. Juxtaglomerular Apparatus.
5. Compare and contrast first and second heart sounds.

**SECTION B  
(BIOCHEMISTRY)**

**I. Essay:** **1 x 15 = 15 Marks**

1. How is ammonia formed? Describe the reactions in the synthesis of urea.

**II. Write Short Notes on:** **2 x 5 = 10 Marks**

1. Classification of Enzymes.
2. Ascorbic acid.

**III. Short Answers questions:** **5 x 2 = 10 Marks**

1. Fluorosis.
2. Essential Fatty acids.
3. Substrate level phosphorylation.
4. Gout – Etiology and give two clinical features.
5. Plasma Calcium level.

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