

[KY 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. What is anemia? Classify the types of anemia on morphological and etiological basis. Add a note on red blood cell indices.

**II. Write Short Notes On:**

**2X 5 = 10 Marks**

1. Neural and chemical regulation of respiration.
2. Define cardiac output and factors regulating it.

**III. Short Answers questions:**

**5X 2 = 10 Marks**

1. Functions of liver.
2. Innervation of urinary bladder.
3. Define arterial blood pressure.
4. Structure of skeletal muscle.
5. Receptors of vision.

**SECTION B**

**(BIOCHEMISTRY)**

**I. Essay:**

**1 x 15 = 15 Marks**

1. Describe the regulations of Blood glucose level. Add a note on diabetes mellitus and its biochemical investigations.

**II. Write Short Notes On:**

**2X 5 = 10 Marks**

1. Coenzymic forms, functions and deficiency manifestations of Vitamin B12.
2. Ketogenesis.

**III. Short Answers questions:**

**5X 2 = 10 Marks**

1. Gene mutation.
2. Allosteric Inhibition.
3. Name the aromatic amino acids.
4. Heparin.
5. Second messengers.

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