

[LQ 653]

FEBRUARY 2020

Sub. Code: 4202

**FIRST YEAR B.D.S. DEGREE EXAM****PAPER II – GENERAL HUMAN PHYSIOLOGY AND BIOCHEMISTRY***Q.P. Code: 544202***Time: 180 Minutes****Maximum: 70 Marks**

**Draw Suitable diagrams wherever necessary**  
**Answer section A and B in Separate Answer Books**

**SECTION – A**  
**(GENERAL HUMAN PHYSIOLOGY)**

**I. Elaborate on:** (1 x 10 = 10)

1. Describe functions of Glucocorticoids. Add a note on Cushing's syndrome.

**II. Write Notes on:** (3 x 5 = 15)

1. Milk Ejection Reflex.
2. Spermatogenesis.
3. Growth hormone.

**III. Short answers:** (5 x 2 = 10)

1. Referred pain.
2. List various methods of measuring cardiac output.
3. Positive feedback mechanism.
4. Oral contraceptives.
5. Dead space.

**SECTION – B**  
**(BIOCHEMISTRY)**

**I. Elaborate on:** (1 x 10 = 10)

1. How ketone bodies are produced in liver? Describe the utilization of ketone bodies by brain in starvation and diabetic conditions.

**II. Write Notes on:** (3 x 5 = 15)

1. Phospholipids.
2. Clinical significance of liver function tests.
3. Define and classify Jaundice.

**III. Short answers:** (5 x 2 = 10)

1. Synthesis of glucose from amino acids.
2. Antioxidant vitamins.
3. Sodium and potassium.
4. Balanced diet.
5. Rickets.

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