

Reg. No.: .....

**First Year BDS Degree Examinations July 2019****General Human Physiology and Biochemistry****(2016 Scheme)****Time: 3 Hours****Max Marks: 70**

- Answer all questions
- Draw diagrams wherever necessary
- Write **SECTION A** and **SECTION B** in separate Answer books (32 Pages). Do not mix up questions from Section A and Section B.

**QP CODE: 112002****Section A - Physiology****Marks: 35****Essay:****(10)**

1. Define cardiac output and describe factors regulating cardiac output. Define stroke volume. Write its normal value (2+6+2)

**Short Notes:****(2x5=10)**

2. Draw and label the pathway for pain from face. Describe briefly on referred pain. (3+2)
3. Describe the respiratory centers and neural regulation of respiration. (2+3)

**Brief Notes:****(5x3=15)**

4. Deglutition mechanism
5. Urinary bladder and micturition reflex
6. Mechanism of neuromuscular transmission
7. Actions of hypercalcemic hormone in the body
8. Milk ejection reflex

**QP CODE: 113002****Section B - Biochemistry****Marks: 35****Essay:****(10)**

1. Explain the factors affecting enzyme activity.

**Short Notes:****(2x5=10)**

2. Trace the pathway of beta oxidation of fatty acids.
3. What is the serum calcium level and how it is regulated.

**Brief Notes:****(5x3=15)**

4. Secondary structure of proteins
5. Epimerism
6. Sequence of components of electron transport chain
7. Synthesis of calcitriol
8. Blood buffers

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