Reg. No.:		
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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
