

First Year BDS Degree Supplementary Examinations January 2020

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. What is the composition and functions of saliva. Describe the regulation of secretion saliva. (3+3+4)

Short Notes:

(2x5=10)

2. Explain the mechanism of neuro-muscular transmission.
3. Describe the visual pathway with the help of a diagram.

Brief Notes:

(5x3=15)

4. Define cardiac output. What are the factors regulating cardiac output.
5. Movements of small intestine.
6. Define tidal volume and mention its normal value.
7. Menarche and menopause.
8. Functions of oxytocin

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Section B - Biochemistry

Marks: 35

Essay:

(10)

1. Describe the β - oxidation of fatty acids. Add a note on energetics.

Short Notes:

(2x5=10)

2. Homo polysaccharides
3. Factors regulating blood calcium level

Brief Notes:

(5x3=15)

4. Scurvy
5. Transamination
6. Functions of fluoride
7. Competitive inhibition
8. t-RNA