

Reg. No.:

First Year BDS Degree Supplementary Examinations July 2022

General Human Physiology and Biochemistry

(2016 Scheme)

Time: 3 Hours

Max Marks: 70

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *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. Name the hormones regulating the serum calcium. Describe the mechanism of regulation by any one of them. What is the normal value of serum calcium. Add a note on tetany.
(3+3+1+3)

Short Notes:

(2x5=10)

2. Name the various phases of deglutition. Describe in detail second phase of deglutition.
3. What are the uses of blood grouping. Add a note on the ABO system of blood grouping.

Brief Notes:

(5x3=15)

4. Draw a neat labeled diagram of ECG as in lead II.
5. Explain hypoxia. Name two types.
6. Write any three functions of thyroid hormone.
7. Draw and label the reflex arc showing its components.
8. Define glomerular filtration rate. Mention any two factors affecting GFR.

QP CODE:113002

Section B - Biochemistry

Marks: 35

Essay:

(10)

1. How enzymes are classified. Discuss the various factors affecting enzyme activity.

Short Notes:

(2x5=10)

2. Protein calorie malnutrition.
3. Sickle cell anaemia.

Brief Notes:

(5x3=15)

4. Functions of Vitamin C.
5. Regulation of blood calcium.
6. Essential fatty acids.
7. Structure of DNA.
8. Significance of pentose phosphate pathway.
