



BCC-21259

Seat No. _____

First Year B. D. S. Examination

August - 2021

Physiology & Biochemistry, Nutrition & Dietetics

Time : Hours]

[Total Marks : 70

- Instructions :**
- (1) Write answers of each section in separate answer books.
 - (2) Answers should be brief and draw necessary diagrams.
 - (3) Illegible writing will not fetch any marks.
 - (4) Figures to the right indicate full marks.

SECTION - I (Physiology)

- 1 Define cardiac cycle. Describe various phases and events of cardiac cycle with pressure and volume changes. **10**
OR
Define Hypoxia. Describe various types of hypoxia.
- 2 **Write short notes (Any two)** **10**
(a) Neuro-muscular junction
(b) Juxtaglomerular apparatus
(c) Functions of Growth hormone
- 3.1 **Write short notes (Any two)** **10**
(a) Functions of cerebellum
(b) Functions of saliva
(c) Functions of Testosterone
- 3.2 **Answer in one sentence (any five)** **5**
(a) Define osmosis
(b) Define Hemostasis
(c) Define acquired immunity.
(d) Define Cardiac output.
(e) Enumerate receptors for Vision.
(f) What is Hemophilia?

SECTION - II (Biochemistry, Nutrition & Dietetics)

- 4 Describe Briefly (any two) 10**
(a) Phenylketonuria
(b) Recombinant DNA technology and its application
(c) Heme Catabolism and Jaundice
- 5 Short Notes (any two) 10**
(a) Diabetes Mellitus-types, clinical feature, complications
(b) Immunoglobulins
(c) Vitamin A and D
- 6 (A) Write Short Notes (any two) 10**
(a) Beta oxidation of fatty acid
(b) Protein energy Malnutrition
(c) Enzyme inhibition
- 6 (B) Answer the following (any five) 05**
(a) Function of Albumin
(b) Dietary source of Iron
(c) Scurvy
(d) Function of Lecithin
(e) Examples of Coenzymes
(f) Characteristic of Genetic Code
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