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BACHELOR OF SCIENCE (CARDIOVASCULAR TECHNOLOGY) (CBCS - 2020 COURSE)
B. Sc. (Cardiovascular Technology) Sem - I : WINTER- 2022
SUBJECT : BIOCHEMISTRY

Day : Monday

Time : 10:00 AM-12:00 PM

Date : 23-01-2023

W-23322-2022

Max. Marks : 10

N.B.

- 1) There are **THREE** section as
Section A :- Objective Type questions : 10 marks
Section B :- Long Answer Questions : 20 marks
Section C :- Short Answer Questions : 10 marks
 - 2) Section A is given on **SEPARATE** sheet and has to be answered on **SAME** sheet.
This sheet should be completed within **first 20 minutes** of starting of the examination. The sheet with **section A** will be collected by Supervisor at the end of 20 minutes.
 - 3) You have to make \surd such kind of mark in the box of the appropriate answers.
 - 4) There is no negative marking.
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Seat No. : _____

SECTION – A

Q.1 The homopolysaccharide used for the measurement of GFR is _____

- Cellulose
- Glycogen
- Chitin
- Inulin

Q.2 Which of the following enzyme is used as a marker of myocardial infarction ?

- Alkaline phosphatase
- Amylase
- Lipase
- Creatine phosphokinase

Q.3 The phospholipid possessing antigenic properties is _____

- Lecithin
- Cardiolipin
- Cephalin
- Phosphatidyl inositol

Q.4 All of the following are normal variants of Hemoglobin, Except

- HbA_{1c}
- HbF
- HbS
- HbA₁

PTO

Q.5 Mineral which helps in the prevention of dental caries is _____

- Iodine
- Fluorine
- Calcium
- Zinc

Q.6 Which of the following is a storage form of Lipid?

- Glycolipid
- Phospholipid
- Sulfolipid
- Triacylglycerol

Q.7 The plasma protein involved in blood clotting is _____

- Albumin
- α -globulin
- Fibrinogen
- γ - globulin

Q.8 Identify the essential amino acid

- Tyrosine
- Alanine
- Phenylalanine
- Lysine

Q.9 The heteropolysaccharide having a role as an anticoagulant is _____

- Hyaluronic acid
- Heparin
- Chondroitin
- Chondroitin sulphate

Q.10 Which of the following is involved in allergic response?

- IgM
- IgE
- IgA
- IgD

Total Marks obtained : _____

Signature of Invigilator

Signature of Examiner

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Max. Marks : 30

N.B.

- 1) There are **THREE** section as
Section A :- Objective Type questions : 10 marks
Section B :- Long Answer Questions : 20 marks
Section C :- Short Answer Questions : 10 marks
 - 2) Section B has four long answer questions and **ANY TWO** questions have to be answered.
 - 3) Section C has Six short answer questions and **ANY FIVE** questions have to be answered.
 - 4) Section B and C should be written in **SAME** answer sheet.
 - 5) Draw neat diagram wherever necessary.
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SECTION – B

Long answer questions (attempt ANY TWO) (20)

- 1) Define proteins. Classify proteins by different ways giving suitable examples.
- 2) Describe the structure and functions of cholesterol.
- 3) Define enzymes. Describe the factors affecting enzyme activity.
- 4) Discuss the sources, RDA, functions and deficiency manifestations of calcium.

SECTION – C

Short answer questions (attempt ANY FIVE) (10)

- 1) Give any four functions of plasma proteins.
- 2) Mention the coenzyme forms of Niacin with any two functions.
- 3) Biologically important free nucleotides.
- 4) Draw and label structure of t-RNA.
- 5) Enumerate four applications of Radioisotopes.
- 6) Define and enumerate essential fatty acids.
