

BACHELOR OF SCIENCE (LABORATORY SCIENCES) (CBCS - 2019 COURSE)
B.Sc. (Lab Sci) Sem-V : WINTER- 2022
SUBJECT : CLINICAL BIOCHEMISTRY-II

Day : Wednesday

Time : 10:00 AM-12:00 PM

Date : 25-01-2023

W-22575-2022

Max. Marks : 20

N.B.

- 1) There are three sections as
Section – A = Objective Type questions - 20 marks.
Section – B = Long Answer questions - 20 marks.
Section – C = Short Answer questions - 20 marks.
- 2) Section A is given in **SEPARATE** sheet and has to be answered on same sheet. This sheet should be completed with the first **20** minutes of starting of the examination. This sheet with Section A only will be collected by Supervisor
- 3) Section B has four long questions and **ANY TWO** questions have to be answered.
- 4) Section C has six short questions and **ANY FOUR** questions have to be answered
- 5) You have to make \surd such kind of mark in the box of the appropriate answers.

Seat No. _____

SECTION – A

M.C.Q's

Q.1 Multiple Choice questions

- 1) Following is an examples of Purine base
 - a) Adenine
 - b) Thymine
 - c) Uracil
 - d) Cytosine
- 2) Estimation of serum glutamate pyruvate transaminase (ALT) is done to assess
 - a) Cardiac marker
 - b) Kidney function
 - c) Thyroid function
 - d) Liver function
- 3) Normal prothrombin time is
 - a) 10-12 sec
 - b) 15-20 sec
 - c) 13-20 sec
 - d) 12-14 sec
- 4) The correct sequence of steps in protein synthesis after the activation of amino acid is
 - a) Initiation, Termination. Post translational changes, Elongation.
 - b) Initiation, Elongation. Termination ,Post translational changes
 - c) Termination, Post translational changes, Initiation, Elongation
 - d) Termination, Post translational changes, Elongation, Initiation

P.T.O.

- 5) Which of the following disorder can be detected by new born screening
- a) Galactosemia
- b) Uremia
- c) Hyperuricemia
- d) Natremia
- 6) Estimation of CK – MB is done to assess
- a) Thyroid function
- b) Cardiac function
- c) Kidney function
- d) Liver function
- 7) Which of the following lipoprotein transports cholesterol from peripheral tissues to liver
- a) Chylomicrons
- b) HDL
- c) LDL
- d) VLDL
- 8) In quality control program, monitoring control runs on Levy Jennings is good practice to detect
- a) Random error
- b) Systemic error
- c) Trends
- d) All of the above
- 9) Hyperuricemia is characterized by increased serum
- a) Urea
- b) Uric acid
- c) Glucose
- d) Ketone bodies
- 10) Out of the following which are types of chromatography
- a) Ion exchange
- b) Adsorption
- c) Gel – filtration
- d) All of the above

Total marks obtained _____

Signature of Invigilator : _____

Signature of Examiner : _____

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Section – C = Short Answer questions - 20 marks.
- 2) Section B has four long questions and **ANY TWO** questions have to be answered.
- 3) Section C has six short questions and **ANY FOUR** questions have to be answered
- 4) Answer to both the sections should be written in same answer book.

SECTION – B

Long answer questions (Attempt ANY TWO)

(20)

- 1) Describe the different types of RNA's. Draw structure of tRNA. Add a note on Transcription.
- 2) Discuss in detail the role of quality assurance programmes in clinical laboratories.
- 3) Explain briefly Recombinant DNA technology and its applications.
- 4) Define and classify cardiac markers. Discuss cardiac markers of myocardial infarction.

SECTION - C

Short answer questions (Attempt ANY FOUR)

(20)

- 1) Liver function test based on synthetic function
- 2) Westgard's rules
- 3) Clearance tests : Types, significance, normal ranges.
- 4) Chromatography: Principle, working and Applications
- 5) Lipid profile: Indications, Sample collection, Normal ranges
- 6) Newborn screening: Sample, collection and methods used.

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