BACHELOR OF SCIENCE (LABORATORY SCIENCES) (CBCS - 2019 COURSE) B.Sc. (Lab Sci) Sem-V: WINTER: - 2021

SUBJECT: CLINICAL BIOCHEMISTRY-II

| Day: Monday Date 7/2/2022 | Time: 10:00 AM-12:00 PM W-22575-2021 Max. Marks: 20 | [|
|------------------------------|--|---|
| N.B. | | |
| 1) | There are three sections as | |
| | Section – A = Objective Type questions - $\frac{20 \text{ marks.}}{100 \text{ marks.}}$ | |
| | 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 | • |
| 2) | examination. This sheet with Section A only will be collected by Supervisor | |
| 3) 4) | Section B has four long questions and ANY TWO questions have to be answer Section C has six short questions and ANY FOUR questions have to be answer | e |
| 5) | You have to make $\sqrt{\text{such kind of mark in the box of the appropriate answers.}}$ | e |
| Seat No. | | _ |
| M.C.Q's | SECTION – A | |
| 0.1 | Multiple Chaige questions | |
| Q.1 1) | Multiple Choice questions The end product of purine catabolism is | |
| a) | Uric acid | |
| b) | Hypoxanthine | |
| c) | Xanthine | |
| d) | None of the above | |
| 2) a) | Which of the following disorders can be detected by new born screening? Galactosemia | |
| b) | Congenital hypothyroidism | |
| c) | Phenylketonuria | |
| d) | All of the above | |
| 3) | Which of the following Westgard's rule of quality control is a rejection | İ |
| 2) | criteria? | i |
| a) | 1.25 | - |
| b) | 1:3S | - |
| c) | 1:4S | |
| d) | All of the above | |
| 4) | Which of the following parameter of lipid profile is calculated using Friedwald's formula | |
| a) | HDL | |
| b) | LDL | 1 |
| c) | Cholesterol | 1 |
| d) | Triglycerides | |
| 1 | P.T.O. | |

| 5) | Which of the following enzyme causes separation of DNA strands during replication? | | |
|---|---|--|--|
| a) [| Polymerase | | |
| b) | Ligase | | |
| e) _ | Helicase | | |
| d) | Primase | | |
| 6) | Which of the following liver function test is based on its excretory function? | | |
| a) [| Serum bilirubin | | |
| b) | Serum albumin | | |
| c) [| Serum alanine transferase | | |
| d) [| Serum alkaline phosphatase | | |
| 7) | All of the following substances can be used for clearance test to assess glomerular function EXCEPT | | |
| a) | Urea | | |
| b) | Inulin | | |
| e) | Creatinine | | |
| d) | Uric acid | | |
| 8) a) | Which of the following is not a characteristics of Generic code? Universal | | |
| b) | Degeneracy | | |
| c) [| Unambiguous | | |
| d) | Overlapping | | |
| 9) | Which of the following enzyme is known as 'Molecular seissors'? | | |
| a) | Ligase | | |
| b) | Restriction endonuclease | | |
| c) | Polymerase | | |
| d) | None of the above | | |
| 10) | All of the following steps are involved in Polymerase Chain Reaction EXCEPT | | |
| a) | Denaturation | | |
| b) | Annealing of primers | | |
| c) | Amplification | | |
| d) | Ligation | | |
| Total marks obtained Signature of Invigilator : | | | |
| | Signature of Examiner : | | |
| | · | | |

BACHELOR OF SCIENCE (LABORATORY SCIENCES) (CBCS - 2019 COURSE) B.Sc. (Lab Sci) Sem-V: WINTER: - 2021 SUBJECT: CLINICAL BIOCHEMISTRY-II

| | EMISTRY-II |
|--|--|
| | Time: 10:00 AM-12:00 PM Max. Marks: 40 |
| | |
| There are three sections as Section – A = Objective Type questions Section – B = Long Answer questions Section – C = Short Answer questions | 20 marks. 20 marks. 20 marks. |
| | |
| Section C has six short questions and ANY FOU Answer to both the sections should be written in | $J\mathbf{R}$ questions have to be answered |
| SECTION – B | |
| g answer questions (Attempt ANY TWO) | (20) |
| Describe the chemistry, organization, functions an | d replication of DNA. |
| Explain briefly Recombinant DNA technology and | d its applications. |
| Classify liver function tests. Describe the tests base | ed on excretory function. |
| Define quality assurance, precision, accuracy, sens | sitivity and specificity. |
| SECTION - C | |
| rt answer questions (Attempt ANY FOUR) | (20) |
| Mutation | |
| | |
| Clearance Tests | |
| Cicarance 1035 | |
| Biomarkers of Myocardial infarction | |
| Chromatography: Principle, working and Application | ion |
| Lipid profile: indications, sample collection, Norm | • |
| Lipid prome, malcations, sample conection, Norm | al range |
| | There are three sections as Section – A = Objective Type questions Section – B = Long Answer questions Section – C = Short Answer questions and ANY TW Section B has four long questions and ANY TW Section C has six short questions and ANY FOU Answer to both the sections should be written in SECTION – B Is answer questions (Attempt ANY TWO) Describe the chemistry, organization, functions an Explain briefly Recombinant DNA technology and Classify liver function tests. Describe the tests bas Define quality assurance, precision, accuracy, sens SECTION - C In answer questions (Attempt ANY FOUR) Mutation Clearance Tests Biomarkers of Myocardial infarction Chromatography: Principle, working and Application |