

**B.Sc. BIOTECHNOLOGY
SECOND SEMESTER
MEDICAL DIAGNOSTICS
BBT-202**

**SET
B**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 1hr. 30 mins.

Full Marks: 35

(Objective)

Time: 15 mins.

Marks: 10

Choose the correct answer from the following:

1 × 10 = 10

- Which of the following immunoglobulins makes the largest percentage in breast milk?
 - IgM
 - IgD
 - IgG
 - IgA
- Antibodies are:
 - Prostaglandins
 - Steroids
 - Lipoproteins
 - Glycoproteins
- Which of the following is used in electron microscope?
 - Electron beams
 - Magnetic fields
 - Light waves
 - Electron beams and magnetic fields
- Which among the following helps us in getting a three-dimensional picture of the specimen?
 - Transmission Electron Microscope
 - Scanning Electron Microscope
 - Compound Microscope
 - Simple Microscope
- Electron Microscope can give a magnification up to.....
 - 400,000X
 - 100,000X
 - 15000X
 - 100X
- RFLP involves.....
 - Restriction enzymes
 - Ligases
 - Polymerases
 - Nucleotides
- Molecular marker rely on.....
 - DNA
 - RNA
 - Lipids
 - Vitamins
- Idiotypic is the variation in..... region of antibody.
 - Hinge
 - Constant
 - Base
 - Variable
- Disease detection is most authentic by.....
 - Biochemical markers
 - Physical markers
 - Cytological markers
 - Molecular markers

10. MIC is.....
- a. Maximum Inhibitory Concentration
 - b. Minimum Inhibitory Concentration
 - c. Maximum/Maximum Inhibitory Concentration
 - d. All are correct

(Descriptive)

Time : 1 hr. 15 mins.

Marks : 25

[Answer question no.1 & any two (2) from the rest]

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|--|--------|
| 1. Explain agar well diffusion method. | 5 |
| 2. What is marker? Explain the reactions and role of PCR medical diagnosis. | 3+7=10 |
| 3. What is fingerprinting? Explain plasmid printing highlighting its role in strain detection. | 3+7=10 |
| 4. Write short notes on:
a) Radio immune assay
b) Electron microscopy | 5+5=10 |
| 5. Describe in brief epitope design and its applications. | 5+5=10 |

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