

**B.Sc. BIOTECHNOLOGY
SECOND SEMESTER
MEDICAL DIAGNOSTICS
BBT-921 [IDMj]**

**SET
A**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 1hr. 30 mins.

Full Marks: 35

Time: 15 mins.

Marks: 10

(Objective)

Choose the correct answer from the following:

1 × 10 = 10

- Immune cells are made up of.....
 - Antigens
 - Antibodies
 - Hormones
 - None of the mentioned
- The reaction of Antibody-Antigen is like.....
 - Enzyme reaction
 - Enzyme-substrate
 - Substrate reaction
 - Complete reaction
- Example of molecular marker involving PCR is.....
 - RAPD
 - DNA marker
 - RFLP
 - Epitope & Paratope
- Primer is used in.....
 - PCR
 - ELISA
 - Centrifuge
 - Electroscopes
- MIC is.....
 - Maximum Inhibitory Concentration
 - Maximum/Maximum Inhibitory Concentration
 - Minimum Inhibitory Concentration
 - All are correct
- Technique of microbial load detection is.....
 - PCR
 - Plasmid fingerprinting
 - Micro-dilution
 - DNA fingerprinting
- The technique used in medical diagnostic is.....
 - Clearing
 - HPLC
 - Microscopy
 - HPLC and microscopy
- The reaction of Ag and Ab is between.....
 - Epitope and Antigen
 - Paratope and Antigen
 - Epitope and Antibody
 - Epitobe and Paratope
- Idiotype is the variation in..... region of antibody.
 - Hinge
 - Base
 - Constant
 - Variable

10. Choose the correct option.

- a. Disease detection is most authentic by biochemical markers
- b. Disease detection is most authentic by physical markers
- c. Disease detection is most authentic by cytological markers
- d. Disease detection is most authentic by molecular markers

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(Descriptive)

Time : 1 hr. 15 mins.

Marks : 25

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

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|---|--------|
| 1. Explain the structure of antibody. | 5 |
| 2. Write the reactions of PCR. Explain the significance. | 7+3=10 |
| 3. What is micro dilution? Explain well diffusion method. | 3+7=10 |
| 4. Explain the structure of plasmid and its significance in fingerprinting. | 5+5=10 |
| 5. Write notes on: | 5+5=10 |
| a) Paratope, Epitope | |
| b) Microscopy | |

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