

**2103000206020076**  
**EXAMINATION FEBRUARY-MARCH 2024**  
**BACHELOR OF SCIENCE (SIXTH SEMESTER)**  
**MEDICAL LABORATORY**  
**TECHNOLOGY – XXII – LEVEL 2**  
**(MLT-22-RESENT ADVANCE IN**  
**DIGNOSTICS TECHNIQUES)**

[Time: As Per Schedule]

[Max. Marks: 50]

**Instructions:**

**1. Fill up strictly the following details on your answer book**

- a. Name of the Examination : **BACHELOR OF SCIENCE (SIXTH SEMESTER)**
  - b. Name of the Subject : **MEDICAL LABORATORY TECHNOLOGY – XXII – LEVEL 2 (MLT-22-RESENT ADVANCE IN DIGNOSTICS TECHNIQUES)**
  - c. Subject Code No : **2103000206020076**
2. Sketch neat and labelled diagram wherever necessary.  
3. Figures to the right indicate full marks of the question.  
4. All questions are compulsory.

Seat No:

--	--	--	--	--	--

Student's Signature

**Q.1 Answer in short: (Any Four)**

**8**

- 1) What is PCR? Enlist its types.
- 2) Give use of computer assisted imaging.
- 3) What is RIA? Give its applications.
- 4) What is automation? Name different analysers used in laboratory.
- 5) What are the importance of karyotype analysis?

**Q.2 Attempt any Two short note of the following:**

**14**

- 1) Explain steps and applications of PCR.
- 2) What is FISH? Explain in detail.

3) Enlist types of ELISA. Explain any one type in detail.

**Q.3 Attempt any Two of the following:**

**14**

1) Write a note on microarray.

2) Write a note on automated semen analyser.

3) Explain principle and working of flow cytometry.

**Q.4 Attempt any Two short note of the following:**

**14**

1) What is blotting technique? Explain Northern blotting technique in detail.

2) Explain types of fluoroimmunoassay in brief.

3) Write a note on BECTEK.

\*\*\*\*\*