

CLASS: M.Sc. BIOCHEMISTRY

15A/ 219

St. JOSEPH'S COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI – 620 002

SEMESTER EXAMINATIONS – APRIL 2015

TIME: 2 Hrs. 20 Mins.

MAXIMUM MARKS: 70

SEM	SET	PAPER CODE	TITLE OF THE PAPER
II	2014	14PBC2202B	MOLECULAR DIAGNOSTICS

SECTION – B

Answer all the questions:

5 x 5 = 25

31. a. Explain the molecular methods in diagnosing infectious diseases.

OR

b. Give a short account on carrier erythrocytes.

32. a. Write down the procedure for RFLP.

OR

b. How DNA probes are used in detecting the mutation in gene causing sickle cell anemia?

33. a. Write a note on hyperlipidemia.

OR

b. Comment on peptide mapping.

34. a. Give a brief account on tissue matching procedures.

OR

b. How MHC is associated with auto immune diseases?

35. a. Classify neoplasm based on tissue types.

OR

b. Explain the role of ELISA in diagnosing the infectious diseases.

SECTION – C

Answer any THREE questions:

3 x 15 = 45

36. Describe the cause, symptom and diagnosis of Duchenne muscular dystrophy?
37. Explain the types and significance of prenatal sex determination.
38. Give a detailed account on the role of protein “c” and its diagnostic procedures.
39. Write an essay on the production of monoclonal antibodies using hybridoma technology.
40. Describe in detail the application of PCR in the diagnosis of
 - (i) Hepatitis B
 - (ii) Tuberculosis
