



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – BIOTECHNOLOGY

FIRST SEMESTER – NOVEMBER 2023

PBT1MC04 – IMMUNOLOGY AND IMMUNOTECHNOLOGY

Date: 08-11-2023

Dept. No.

Max. : 100 Marks

Time: 01:00 PM - 04:00 PM

SECTION A – K1 (CO1)

Answer ALL the questions

(5 x 1 = 5)

1 Choose the best option

- a) Which of the following arises from a myeloid progenitor?
i) Neutrophil
ii) Myelin
iii) Memory B-cell
iv) Cytotoxic T-cell
- b) Antigens that result in excessive activation of the immune system are
i) hyperantigens
ii) superantigens
iii) carrier antigens
iv) stimulatory antigens
- c) What a graft from a donated cadaveric organ to a recipient is a/an
i) autograft
ii) allograft
iii) isograft
iv) xenograft
- d) Ervebo - Ebola Zaire Vaccine is a
i) live attenuated recombinant vesicular stomatitis virus
ii) heat-killed recombinant vesicular stomatitis virus
iii) DNA vaccine
iv) RNA vaccine
- e) What is a radioimmunoassay intended to measure?
i) RIA measures the concentration of antigen by the use of antibodies.
ii) RIA measures the concentration of antibodies by the use of antigens.
iii) RIA measures the concentration of protein by the use of antibodies.
iv) RIA measures the concentration of insulin by the use of glycoproteins.

SECTION A – K2 (CO1)

Answer ALL the questions

(5 x 1 = 5)

2 Answer in one or two sentences

- a) How is the MBL pathway activated?
- b) Where are MHC genes located?
- c) What are autoantibodies?
- d) Recommend a rapid immunodiagnostic test for rheumatoid arthritis.
- e) What are recombinant antibodies?

