RAN-2003001105020001

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B. Sc. (Biotechnology) (Sem. - V) Examination March - 2023

Immunotechnology

Time: 2 Hours] **[Total Marks: 50**

સૂચના : / Instructions

(1) નીચે દર્શાવેલ ☛ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of ☛ signs on your answer book

Name of the Examination:

☛ **B. Sc. (Biotechnology) (Sem. - V)**

Name of the Subject :

☛ **Immunotechnology**

Subject Code No.: **2003001105020001**

Seat No.:

Student's Signature

(2) Figures to the right indicate full marks.

(3) Draw neat and labeled diagrams wherever necessary.

Q-1: Define / Answer in short Any Four: **(8)**

(a) State the function of HAT medium.

(b) Immunodiffusion reactions.

(c) Give examples of antigens that can act as inducers of hypersensitivity type-I

(d) On what principle does ABO blood grouping is based?

(e) What is HAMA response in Type III hypersitivity?

(f) Abzymes.

Q-2: Attempt Any Two: **(14)**

(a) Discuss the applications of monoclonal antibodies in detail.

(b) Explain hybridoma technology.

(c) Write a note on Bacterial and Passive agglutination reactions.

Q-3: Answer Any Two: **(14)**

(a) Explain in detail about *Erythroblastosis foetalis.*

(b) Explain type-IV hypersensitivity reaction with one suitable example.

(c) Discuss about Radioimmunoassay technique.

Q-4: Attempt Any Two of the following: **(14)**

(a) Explain recombinant vector vaccine.

(b) Discuss inactivated and live vaccine in short.

(c) Describe Insulin - Dependent Diabetes Mellitus.

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