

M.Sc Sem-3 Examination

501

Biochemistry

Time : 2-30 Hours]

November-2024

[Max. Marks : 70

Instructions:

All questions are compulsory.

Illustrate your answers with neat diagrams wherever necessary.

Question - 1 Write the following

- i) What is immunity and explain humoral immunity [07]
- ii) Explain briefly – Cytokines and explain any two types of Cytokines [07]

OR

- i) Describe immune lymphoid stem cells in detail [07]
- ii) Define immunity in brief and discuss about Innate immunity [07]

Question - 2 Write the following

- i) Explain Antibody in brief and discuss IgA in detail [07]
- ii) Explain mechanisms for Generating Antibody Diversity [07]

OR

- i) What is Antibody? Explain clonal selection theory for antibody formation [07]
- ii) Explain Antigen in brief and discuss types of antigen in detail [07]

Question - 3 Write the following

- i) Write a short note on precipitation test with an example [07]
- ii) Write a short note on agglutination test with an example [07]

OR

- i) Write a short note on immunodiffusion test with an example [07]
- ii) Write a short note on radioimmunoassay. [07]

Question - 4 Write the following

- i) Write a short note on immunodeficiency and their consequences. [07]
- ii) Write a short note on Hypersensitive reactions. [07]

OR

- i) Write a short note on hazards of vaccine [07]
- ii) Write a short note on transplantation. [07]

(P.T.O.)

Question - 5

Attempt any seven out of twelve

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- i) What is full form of IRMA? For what purpose it is used?
 - ii What is the role of the complement system in immune response?
 - iii What is xenograft? Give an example
 - iv What are detectors in RIA?
 - v Who proposed the Two – Gene Model
 - vi Explain tolerance with an example in brief.
 - vii What is the function of IgA
 - viii What is immunodeficiency? Give one example.
 - ix Explain ELISPOT.
 - x What is difference between innate and adaptive immunity?
 - xi What are different types of vaccine?
 - xii Describe the role of major histocompatibility complex(MHC) molecules in antigen presentation.
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