2011E697

Candidate's Seat No:

M.Sc Sem-3 Examination

501

Life Science

Time: 2-30 Hours] November-2024 [Max. Marks: 70

| | | • | |
|--------------|-----|--|--|
| Instruction | s: | | |
| | 1 | All questions are compulsory. | |
| | I | Illustrate your answers with neat diagrams wherever necessary. | |
| Question - 1 | | Write the following | |
| | i) | Define immunity in brief and discuss about Innate immunity | 1971 |
| | ii) | Discuss Secondary Lymphoid organs | 100 mg |
| | | OR | |
| | i) | What is complement system and describe Classical pathway in detail | Section of the sectio |
| | ii) | Explain briefly Cytokines and explain ant two types of Cytokine | 7 7 |
| Question - 2 | | Write the following | |
| | i) | Explain Antibody in brief and discuss IgA in detail | |
| | ii) | Explain in – vivo antigen – antibody interaction | 1071 |
| | | OR | 18/1 |
| | i) | Give brief account on Properties of antigen and describe Adjuvants and Hetan | The state of the s |
| | ii) | Explain mechanisms for Generating Antibody Diversity | 071 |
| Question - 3 | | Write the following | [0] |
| | i) | Write a short note on agglutination test with an example | 100 T |
| | ii) | Write a short note on ELIZA and its types. | |
| | | OR | [07] |
| | i) | Write a short note on immunodiffusion test with an example | Action (Control of Control of Con |
| | ii) | Write a short note on vaccines and immunotherapy. | |
| 0 | | | * 3 |
| Question - 4 | • > | Write the following | |
| | i) | Write a short note on autoimmunity and tolerance. | 7 |
| | ii) | Write a short note on immunodeficiency and their consequences. | [07] |
| | | <u>OR</u> | |
| | i) | Write a short note on Hypersensitive reactions. | 1071 |
| | ii) | Write a short note on hazards of vaccine. | 1071 |

(P.T.6)

E697-2

| Question - 5 | | Attempt any seven out of twelve | 114 |
|--------------|--------------|---|-----|
| | i) | Write down the importance of ACP | |
| | ii | What is the function of T – helper cell | |
| | iii | What is diagnostics significance of antigen-antibody interaction? | |
| | iv | What is full form of IRMA? For what purpose it is used? | |
| | \mathbf{v} | What is the role of the complement system in immune response? | |
| | vi | What is immunotherapy | |
| | vii | What is difference between innate and adaptive immunity? | |
| | viii | What are different types of vaccine? | |
| | ix | Describe the role of major histocompatibility complex(MHC) molecules in antigen presentation. | |
| | X | Explain Type III hypersensitive response. | |
| | xi | Explain tolerance with an example in brief. | |
| | xii | What are tumor associate antigens? | |
| | | | |