R07



Time: 3 hours

Code No: 07A62305

Max Marks: 80

Answer any FIVE Questions All Questions carry equal marks $\star \star \star \star \star$

- 1. Explain the significance of the following in allergic reactions.
- (a) Histamine. (b) Mast cells. [8+8]2. Discuss the role of lymphatic system in immunity in detail? [16]3. Describe the following: (a) Autograft. (b) Allograft. [8+8]4. Explain different types of antigen-antibody interactions? [16]5. Give an account of Antibody Dependent Cell mediated Cytotoxicity (ADCC). [16] 6. (a) What is Immunogenicity & antigenicity? Discuss (b) Discuss the properties of B- cell receptors? [6+10]7. What is MHC? How is MHC involved in identifying self? Explain the critical role of MHC in maturation of T cells. [16]8. Explain about the T & B cell interaction with surface molecules. [16]

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1. (a) Give an account of Recombination Signal Sequences (RSS)	
(b) Write short notes on IgA.	[8+8]
2. What effect does thymectomy have on a neonatal mice & adult mice? W these effects differ? Explain.	hy do [16]
3. Give an account of different types of graft rejection reactions.	[16]
4. (a) Discuss the role of MHC in detail?(b) Define endocytosis. Discuss	
(c) Interferons. (8-	+4+4)
5. Mention different cells with phagocytic ability and explain any two of them?	[16]
6. Write a short note on the following:(a) Positive selection of T cells(b) Negative selection of T cells.	[8+8]
7. Critically discuss current concepts concerning the immunopathogenesis of .	[0+0]
(a) Systemic lupus erythematous.	
(b) Graves disease.	[8+8]
8. Write short notes on the following:	
(a) Role of complement protein in humoral immunity.	
(b) Immunoglobulin idiotype production.	[8+8]

 $\mathbf{R07}$

Set No. 1

Time: 3 hours

Code No: 07A62305

Max Marks: 80

Answer any FIVE Questions All Questions carry equal marks ****

1.	Discuss the role of interferons in cancer therapy.	[16]
2.	Discuss the functions of secondary lymphoid organs in detail?	[16]
3.	What are the various cells involved in the immune response? Explain about the role in immune response?	heir [16]
4.	Discuss about the events between binding of the peptide and MHC by the TC Outline the main differences between IgM and TCR.	CR? [16]
5.	(a) Define HAT medium and explain its role in hybridoma technology?	
	(b) Give an account on the advantages of hybridoma technology? [8	+8]
6.	What are sequestered antigens? Explain their role in autoimmune diseases.	[16]
7.	Discuss about the different classes of immunoglobulins. Explain their role in munity.	Im- [16]
8.	(a) Write a short notes on the significance of chemical composition of the molecular involved in Immunogenicity	ules
	(b) Write a note on antigen presentation via class II MHC molecules. [8	+8]

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[8+8]

[16]

Answer any FIVE Questions All Questions carry equal marks *****

- 1. Write short notes on the following.
 - (a) Explain the significance of Thymidine Kinase in hybridoma technology.
 - (b) Give an account of chimeric antibodies.
- 2. Discuss the significance of TAP in cytosolic pathway and accessory molecules of TCR.
- 3. Discuss ELISA in detail along with its applications? [16]
- 4. What is antibody-mediated immunity? Discuss in detail? [16]
- 5. Give an account on the functional classification of cancer-associated genes? [16]
- 6. Write short notes on the following.
 - (a) Primary mediators of anaphylaxis.
 - (b) Secondary mediators of anaphylaxis. [8+8]
- 7. Discuss the differences between thymus & Bone marrow. & Explain the role of each one? [16]
- 8. (a) Give an account of Super antigens
 - (b) Write a note on MHC class I molecules. [8+8]

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