Seat No.	:	1900 M. MINE AND A	C 2009 A045 00 U.S. N

MM-102

May-2018

B.Sc., Sem.-IV

CC-205 : Biotechnology (Immunology)

Tim	e: 3	Hours]	[Max. Marks: 70
1.	Ansv (A) (B)	wer any two of the following: Describe the precipitation reaction of Antigen-antibody. Explain the general structure of immunoglobulin with suitable diag	ram
	(C) (D)	Define Adjuvants and explain its types. Discuss the mechanism of action of Super antigens with suitable dis	
2.	(A)	wer any two of the following: Discuss the role of APCs in the immune system. Explain Primary and Secondary immune response. Describe thymus as an organ of central role in immune system. 'Spleen is the important organ of the Lymphatic system'. Explain.	14
3.	Anso (A) (B) (C) (D)	wer any two of the following: Discuss the types of graft with examples. Explain how organ transplantation and immunosuppression are integrated the Anticancer role of CMIR. Discuss the steps involved in HLA Typing and give its applications.	
4.	Ans (A) (B) (C) (D)	wer any two of the following: Define Hypersensitivity. Explain Anaphylactic Hypersensitivity. Enlist the type of Autoimmune disorders and explain any one in definition. Discuss Acquired type of Immunodeficiency giving the example of Explain the sequence of events in Erythroblastosis fetalis and mean prevention.	AIDS.

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5. Answer in brief:

- (1) Define Haptens.
- (2) What are Antigenic determinants?
- (3) What is MLR?
- (4) State the early symptoms of RA.
- (5) Name two Immunosuppressants.
- (6) Give the cause of Myasthenia Gravis.
- (7) Define MHC molecules.
- (8) What is serum sickness?
- (9) Define Abzymes.
- (10) What is the purpose of Complement fixation test?
- (11) Draw the labelled diagram of bone marrow.
- (12) Give the location of Peyer's patches in the body.
- (13) Give the example of naturally acquired passive immunity.
- (14) Differentiate between Monoclonal and Polyclonal antibodies.

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