## **PARUL UNIVERSITY** FACULTY OF APPLIED SCIENCE M.Sc., Summer2017-18 Examination

Enrollment No:\_\_\_\_\_

M.Sc., Summer2017-18 Examination	
Semester: 2	Date: 07/05/2018
Subject Code: 11201152	Time: 10:30 am to 1:00 pm
Subject Name: Biology of Immune System	Total Marks: 60
Instructions:	
1. All questions are compulsory.	
2. Figures to the right indicate full marks.	
3. Make suitable assumptions wherever necessary.	
4. Start new question on new page.	
Q.1. A) Essay type/ Brief note (4x2) (Each of 04 marks)	(08
(a) Write a note on T cell maturation process.	
(b) Brief note on antibody diversity.	
Q.1. B) Answer the following questions (Any two)	
(a) Brief note (2x2) (Each of 02 marks)	(04
1. Define innate immunity.	
2. Define adjuvants.	
(b) Difference between B cell and T cell.	(04
(c) Write a note on Classical Complement Pathway.	(04
Q.2. A) Answer the following questions.	× ×
(a) Short note/ Brief note (2x2) (Each of 02 marks)	(04
1. What is the role of IgE?	Ň
2. Define allergy.	
(b) Explain detail structure of immunoglobulins.	(04
Q.2. B) Answer the following questions (Any two)	
(a) Short questions. (Each of 01 marks)	(0)
1. What is the role of RBC?	
2. Which antibody has pentameric structure?	
3. What is the role of T helper cell?	
(b) Write a note on IgG.	(0.
(c) Write a short note on Thymus.	(0.
Q.3. A) Essay type/ Brief note (4x2) (Each of 04 marks)	(08
(a) Write a note on Type I Hypersensitivity.	(0)
(b) Write a note on monoclonal antibody.	
Q.3. B) Answer the following questions (Any two)	
(a) Brief note (2x2) (Each of 02 marks)	(04
1. What is Hybridoma Technology?	(0-
2. What is Hemagglutination?	
(b) Write a note on AIDS.	(04
(c) What is autoimmunity? Write a note on rheumatoid arthritis.	(0)
Q.4. A) Answer the following questions.	(0-
(a) Brief note (2x2) (Each of 02 marks)	(04
1. What is isotypes?	(0
2. What is allotypes?	
(b) Write a short note on ELISA.	(04
Q.4. B) Answer the following questions (Any two)	(0.
	(0)
(a) Short questions. (Each of 01 marks)	(0.
1. Write a full form of SCID.	
2. Define isograft.	
3. Who discover blood grouping system?	
(b) What is the importance of immunosuppressive agents in transplantat	
(c) Write a brief on tumor associated antigens.	(0.