Reg	. No Name	. P3648
	M.SC DEGREE END SEMESTER EXAMINATION OCTOBER 2016	
	SEMESTER – 3: ZOOLOGY	
	COURSE: P3ZOOT12- IMMUNOLOGY	
	Common for Regular (2015 Admission) & Supplementary / Improvement (2014 Ad	mission)
Time		Marks: 75
	Part A	
	(Answer any Eight Questions. Each carries 2 marks)	
1.	What is HLA typing.	
	What is RAST?	
3.	Define haematopoiesis.	
	What is serum sickness.	
_	Comment on monoclonal antibody.	
6.	How antibody diversity is generated.	
7.	Define agglutination.	
8.	List organs of secondary lymphoid system.	
	Comment on tumour immunology.	
	Write the principle of immunoelectron microscopy.	
	What is adjuvants ?	
12.	What is complement system.	(2 x 8 = 16
	Part B	
	(Answer any Seven Questions. Each carries 5 marks)	
13.	Comment on application of HLA typing.	
	Explain different types of vaccines.	
	Explain T-cell maturation and differentiation.	
	Give a brief account on immune response during bacterial and parasitic infection.	
17.		
18.		
	Brief account on multigene organization of Ig genes.	
20.	Short note on immunological basis of graft rejection.	
	Comment on pattern recognition receptors.	(5 x 7 = 35)

Part C

(Answer any Two question. Each carries 12 marks)

- 22. Explain various types of congenital immunodeficiency diseases.
- 23. Give an account on types of hypersensitivity.
- 24. Describe types, induction and treatment of autoimmunity.
- 25. Describe humoral and cell mediated immunity.

 $(12 \times 2 = 24)$