

Reg.No. _____



Karunya UNIVERSITY

(Karunya Institute of Technology & Sciences)
(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

End Semester Examination – Nov/Dec – 2016

Code : 14BT2017
Sub. Name : Immunology

Semester : 2016-17 ODD
Duration : 3hrs
Max. marks : 100

ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)

Draw suitable diagrams wherever necessary.

Q. No.	Sub Div.	Questions	Course Outcome	Marks
1.	a.	Describe in detail the structure and organization of primary lymphoid organs.	1	20
(OR)				
2.	a.	Describe in detail the structure and organization of Secondary lymphoid organs.	1	20
3.	a.	Explain hematopoiesis with regard to the immune system.	1	20
(OR)				
4.	a.	Explain the process of extravasation of immune cells to the site of infection.	1	10
	b.	Describe the structure and function of the types granulocytes.		10
5.	a.	Dissect and describe in detail the structure of the human antibody.	2	20
(OR)				
6.	a.	Explain the structure and functions of the various types of immunoglobulins.	2	20
7.	a.	Explain antigen processing and presentation via the MHC class I pathway.		
(OR)				
8.	a.	Explain antigen processing and presentation via the exogenous pathway.		
<u>Compulsory:</u>				
9.	a.	Explain the classical pathway of the complement system.	2	10
	b.	Explain the immunotechnique ELISA.	3	10

ALL THE BEST