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 : 14BI2004 **Semester : 2016-17 ODD**
Sub. Name : GENOMICS AND PROTEOMICS **Duration : 3hrs**
Max. marks : 100

ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)

Q. No.	Sub Div.	Questions	Course Outcome	Marks
1.	a.	Describe the way eukaryotic genomes are organized.	OC1	**10**
	b.	Differentiate prokaryotic and eukaryotic genomes.		**10**
		(OR)		
2.	a.	Describe the types of Genetic Markers used for mapping genomes.	OC1	**20**
3.	a.	Describe software and algorithms deployed to identify the presence of genes in a DNA sequence.	OC1	**20**
		(OR)		
4.	a.	Explain how one would carry out restriction mapping on a short sequence of DNA.	OC1	**20**
5.	a.	Describe in detail the principles used to separate proteins on 2DPAGE.	OC2	**20**
		(OR)		
6.	a.	Describe the parts of a MALDI-TOF instrument and its working.	OC2	**20**
7.	a.	Explain about the types of mass analysers used in ESI tandem MS.	OC2	**20**
		(OR)		
8.	a.	Describe how protein sequencing is performed using Peptide Mass Fingerprinting	OC2	**20**
		Compulsory:		
9.	a.	Explain how the Human Genome Project was instigated. Discuss its applications.	OC1	**20**

ALL THE BEST