

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 : Microbiology
Sub. Name : 14BT2005

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

ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)

Q. No.	Sub Div.	Questions	Course Outcome	Marks
1.	a.	What is binomial nomenclature? Discuss in detail about the classification of microorganisms.	CO1	20
(OR)				
2.	a.	What is refractive index? State the working principle of dark field microscope in detail	CO1	10
	b.	With a neat diagram, describe in detail the working principle of fluorescent microscope and mention its advantages and disadvantages.	CO1	10
3.	a.	Define media? Discuss in detail about the nutritional requirements for the growth of bacteria.	CO1	20
(OR)				
4.	a.	With a neat flow chart, explain the principle and procedure for Gram staining and Acid fast staining.	CO1	20
5.	a.	Give a detailed account on lytic and lysogeny cycle of bacteriophages.	CO1	20
(OR)				
6.	a.	What are actinomycetes? Discuss the structure, replication and importance in detail	CO1	20
7.	a.	Enumerate the physical methods used to control the growth of microorganisms	CO1	20
(OR)				
8.	a.	With a neat diagrammatic representation, describe the biogas production and its uses in detail.	CO1	20
<u>Compulsory:</u>				
9.	a.	What is biofertilizer? Give a short note on Rhizobial fertilizer.	CO1	10
	b.	Briefly discuss the production of cyanobacterial fertilizer.	CO1	10

ALL THE BEST