

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 : **14BT3021**
Sub. Name : **Microbial Pathogenesis**

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.	Enumerate the routes by which exogenous pathogens can infect a person with examples	CO1	14
	b.	Write the principle of microbial adherence	CO4	6
(OR)				
2.	a.	Elucidate the mode of transmission and the clinical manifestation of malaria	CO2	12
	b.	Give an account on clinical features of any two respiratory pathogens	CO1	8
3.	a.	Elucidate the clinical characteristic symptoms of cholera and the most important virulence factor in this disease	CO1	12
	b.	Difference between enteric and non enteric pathogens with examples	CO1	8
(OR)				
4.	a.	Explain the mechanisms involved in microorganisms acquiring antibiotic resistance and the clinical importance of MDRO in health care industry with suitable examples	CO2	20
5.	a.	Quorum sensing causes some pathogens to express virulence factors that promote infection- Explain	CO3	12
	b.	Briefly explain the clinical features and control of infections caused by Shigella sp	CO1	8
(OR)				
6.	a.	Demonstrate the importance of microbial biofilms in medical industry	CO4	10
	b.	Describe the clinical syndromes and preventive measures of Rhinovirus	CO1	10
7.	a.	Elaborate on the different stages involved in the development of newer vaccines	CO2	15
	b.	Write short notes on clinical features of E. coli	CO1	5
(OR)				
8.	a.	Enumerate the molecular mechanisms of bacterial virulence with appropriate examples [10]	CO3	15
	b.	Briefly explain about heat killed vaccines with examples	CO2	5
<u>Compulsory:</u>				
9.	a.	What toxins have been implicated in staphylococcal diseases? Which staphylococcal enzymes have been proposed as virulence factors	CO1	12
	b.	Give an account on pathogenesis, diagnosis and control measures of plague	CO1	8

ALL THE BEST