

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 : **14BT2045**Sub. Name : **Biopharmaceutical Technology**Semester : **V**Duration : **3hrs**Max. marks : **100**

ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)

Q. No.	Sub Div.	Questions	Course Outcome	Marks
1.	a.	Explain the process of drug metabolism with diagrams	CO1	10
(OR)				
2.	a.	Explain the various routes of administration of drugs with diagrams	CO1	10
3.	a.	What are capsules?	CO2	5
	b.	Explain its manufacture and quality assurance	CO2	15
(OR)				
4.	a.	Explain the dry and wet granulation in manufacture of tablets	CO2	20
5.	a.	Write a detailed note on Clinical Trials and its regulations in drug industry	CO2	20
(OR)				
6.	a.	Explain the process of manufacture drugs using rDNA technology	CO1	20
7.	a.	Write notes on – oral liquids	CO2	10
	b.	Ointments	CO2	10
(OR)				
8.	a.	What are parental solutions, describe its advantages over other formulations	CO2	20
<u>Compulsory:</u>				
9.	a.	Highlight the FDA regulations in pharmaceutical industry	CO3	10
	b.	Describe GLP and GMP practices involved in the development and formulation of a drug	CO3	10

ALL THE BEST