

Reg.No. _____



KarunyaUNIVERSITY

(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 : 14 BT2008
Sub. Name : Metabolism and Bioenergetics

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.	Explain the reactions involved in pentose phosphate pathway (OR)	Co1	20
2	a	Comment on glycogen synthesis	co3	20
3.	a.	Enumerate on the biosynthesis of tyrosine and phenylalanine (OR)	Co1	20
4.	a.	Sketch the steps involved in urea cycle	Co1	10
	b	Brief on transamination reaction with suitable examples	Co1	10
5.	a.	Explain the inborn errors of lipid metabolism (OR)	Co3	20
6.	a.	How cholesterol is formed? Explain	Co1	20
7.	a.	Describe the mechanism of ATP formation with a neat diagram (OR)	Co1	20
8.	a.	What is respiratory chain? Explain	Co1	20
		<u>Compulsory:</u>		
9.	a.	Discuss on the biosynthesis and degradation of purine	Co2	20