

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 : **14EE2028**  
Sub. Name : **BUILDING AUTOMATION**

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 process of cable selection, installation guidelines and best installation practices for safety systems.	CO1	15
	b.	What sampling speed is required for the average building services plan to be adequately controlled in modern Intelligent buildings?	CO2	5
(OR)				
2.	a.	Draw and Explain about Building Automated Management System.	CO1	15
	b.	Define Earthing and its use in building system enabling integrated system connections.	CO1	5
3.	a.	Explain the operation and principle of Automatic Energy meter reading system with a neat sketch.	CO3	20
(OR)				
4.	a.	Briefly explain about effect of Power Quality on Energy Consumption.	CO3	10
	b.	Explain about the monitoring energy parameters in meter networking.	CO3	10
5.	a.	Summarize the different types of fire detectors and its working principle with suitable diagram	CO2	20
(OR)				
6.	a.	Mention the different fire behavior indicators. How will you react based on the different indicators?	CO2	10
	b.	Explain Fire Extinguishing Principles and its classification.	CO2	10
7.	a.	Describe various access control – concept and generic model.	CO2	15
	b.	Explain Intrusion Detection System in security and video management.	CO2	5
(OR)				
8.	a.	Briefly explain about Biometrics usage in network technologies of Building Automation.	CO2	8
	b.	Compare the Card Technologies and concept of Antipass back.	CO2	12
<b><u>Compulsory:</u></b>				
9.	a.	Describe the benefits, Challenges and future prospects of constructing and designing structured building system by Integrated Modern Intelligent Systems	CO1	20

ALL THE BEST