Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_



**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**

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|  |  | **Semester :** | **2016-17 ODD** |
| **Code :** | **14EE2028** | **Duration :** | **3hrs** |
| **Sub. Name :** | **BUILDING AUTOMATION** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| **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 |
|  | | **Compulsory:** |  |  |
| 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