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 – April/May– 2017**

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| **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. | Summarize the features, Characteristics and drawbacks of building Automation System. | CO2 | 15 |
| b. | List down the concept of controller IOs. | CO1 | 5 |
| (OR) | | | | |
| 2. | a. | Explain the process of cable selection, installation guidelines and best installation practices for a safe automated building systems . | CO 2 | 15 |
| b. | Define Actuators. | CO2 | 5 |
| 3. | a. | Draw and Explain the operation of Automatic Energy meter reading system. | CO3 | 15 |
| b. | Describe the importance of energy saving. | CO3 | 5 |
| (OR) | | | | |
| 4. | a. | Summarize the different types of access control and its working principle with suitable diagram. | CO1 | 20 |
| 5. | a. | Explain Fire Extinguishing Principles and its classification. | CO2 | 10 |
| b. | How do we use burglar alarm in security and safety control system. Also Brief the functions of the burglar alarm systems. | CO2 | 10 |
| (OR) | | | | |
| 6. | a. | Explain the typical configurations of Fire Alarm System with neat sketch. | CO2 | 18 |
| b. | Mention the types of panels involved in Fire Alarm Control? | CO2 | 2 |
| 7. | a. | Prioritize the long lasting performance of line-powered CCTV system along with neat sketch. | CO2 | 15 |
| b. | Discuss about Smart Cards usage in security systems. | CO2 | 5 |
| (OR) | | | | |
| 8. | a. | Explain Digital Video Recording – Features in integrated intelligent systems. | CO3 | 12 |
| b. | Differentiate Digital and Analog Recording. | CO2 | 4 |
| c. | What is mean by TCP/IP Network technologies in building automation. | CO2 | 4 |
|  | | **Compulsory:** |  |  |
| 9. |  | Describe the benefits, Challenges and future prospects of constructing and designing structured building system by Integrated Modern Intelligent Systems | CO1 | 20 |

ALL THE BEST