# 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 :** | **16EC2002** | **Duration :** | **3hrs** |
| **Sub. Name :** | **INTERNET OF THINGS FOR COMMUNICATION ENGINEERING** | **Max. marks :** | **100** |

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

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| S.No. | Sub Div. | Questions | Course Outcome | Marks |
| 1. | a. | State your perception about cloud. | CO1 | 4 |
| b. | Affirm the acronym for TCP/IP. | CO1 | 4 |
| c. | Name any two protocols of transport layer. | CO1 | 4 |
| d. | Sketch the OSI model and state the functions of network layer. | CO1 | 8 |
| (OR) | | | | |
| 2. |  | Enlighten Machine to Machine communication with appropriate diagrams. | CO1 | 20 |
| 3. |  | Explicate remote monitoring and sensing application of IoT with relevant diagrams. | CO1 | 20 |
| (OR) | | | | |
| 4. |  | Illustrate Home Automation Control System with suitable diagram. | CO1 | 20 |
| 5. |  | Portray the IoT communication patterns with necessary diagrams. | CO2 | 20 |
| (OR) | | | | |
| 6. |  | Explain the performance monitoring of electrical distribution system using IoT | CO3 | 20 |
| 7. | a. | An IPv4 address consists of bytes. | CO3 | 2 |
|  | b. | Illustrate star topology network. | CO3 | 4 |
|  | c. | Mention the number of usable addresses in Class C. | CO3 | 4 |
|  | d. | Mention the range of IP address for Class A | CO3 | 4 |
|  | e. | Explicate the IP datagram with a neat sketch. | CO3 | 6 |
| (OR) | | | | |
| 8. |  | Portray the IoT in home security. | CO3 | 20 |
|  | | **Compulsory**: |  |  |
| 9. |  | With a neat sketch of the IoT protocol architecture, enlighten the functions of each protocol. | CO1 | 20 |

# ALL THE BEST