**18EID22**

**Hall Ticket Number:**

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| **III/IV B.Tech (Regular) DEGREE EXAMINATION** | | | |
| **August, 2021** | **Electronics and Instrumentation Engineering** | | |
| **Sixth Semester** | **INTERNET OF THINGS** | | |
| **Time:** Three Hours | | **Maximum: 5**0 Marks | |
| *Answer Question No. 1 Compulsorily.* | | | (10X1 = 10 Marks) |
| *Answer* ***ANY ONE*** *question from each Unit.* | | | (4X10=40 Marks) |

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| 1 |  | **Answer all questions** | **10x1=10M** | | |
|  | a) | List applications of IOT | CO1 | |  |
|  | b) | What is SDN? | CO1 | |  |
|  | c) | List wireless medium access issues | CO2 | |  |
|  | d) | What is meant routing protocol? | CO2 | |  |
|  | e) | What is the advantage of Node discovery | CO2 | |  |
|  | f) | Differentiate between IoT and M2M | CO1 | |  |
|  | g) | What is the importance of IoT in solving societal applications? | CO3 | |  |
|  | h) | List development challenges of IoT | CO3 | |  |
|  | i) | List any two IoT Tools | CO4 | |  |
|  | j) | How Python is useful for IoT ? | CO4 | |  |
| **Unit - I** | | | | | |
| 2. | a) | Discuss about various characteristics of IoT | CO1 | **5M** | |
|  | b) | Describe about request-response communication model | CO1 | **5M** | |
|  |  | **(OR)** |  |  | |
| 3. | a) | Sketch and explain various components of M2M system architecture | CO1 | **5M** | |
|  | b) | Write a short note on software defined network and its architecture | CO1 | **5M** | |
| **Unit - II** | | | | | |
| 4. | a) | Briefly discuss about MAC protocol | CO2 | **5M** | |
|  | b) | Discuss about sensor deployment | CO2 | **5M** | |
|  |  | **(OR)** |  |  | |
| 5. | a) | Elaborate on data aggregation and dissemination | CO2 | **5M** | |
|  | b) | List and explain any one routing protocol | CO2 | **5M** | |
| **Unit - III** | | | | | |
| 6. | a) | List the IoT challenges | CO3 | **5M** | |
|  | b) | Write a short note on industry applications of IoT | CO3 | **5M** | |
|  |  | **(OR)** |  |  | |
| 7. | a) | Discuss about implementation of IoT for Home automation with an example. | CO3 | **10M** | |
| **Unit - IV** | | | | | |
| 8. | a) | Explain about basic building blocks of an IoT device. | CO4 | **5M** | |
|  | b) | How to implement IoT concepts with Python packages. | CO4 | **5M** | |
|  |  | **(OR)** |  |  | |
| 9. | a) | Discuss about Light Sensor interfaced with Rasberry Pie with Python program. | CO4 | **10M** | |

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