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**Question Paper Code: 97802**

B.E./B.Tech. DEGREE EXAMINATION, NOV 2022

Seventh Semester

Information technology

19UIT702 - INTERNET OF THINGS SYSTEMS AND APPLICATIONS

(Regulation 2019)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 5 = 25 Marks)

1. Outline the business opportunities for IoT. CO1- U
2. Explain Software Defined Networking CO2- U
3. Discuss about Object Abstraction Layer. CO1- U
4. Explain the importance of the growing importance of the IOT paradigm. CO3- U
5. Develop the system architecture for the Microsoft Azure IoT hub CO4- U

PART – B (5 x 15= 75 Marks)

- 6 (a) Explain the Industrial Internet of Things (IoT) with sample use cases. CO3- U (15)  
Or  
(b) Explain the various aspect of Device-to-Cloud (D2C) Integration. CO3- U (15)
- 7 (a) Explain the IoT framework for 5G network with software-based component. CO4- U (15)  
Or  
(b) Develop a IoT based environment using virtualization technologies. CO4- U (15)
8. (a) Explain the process of Zigbee protocol with its suitable IOT applications. CO2- U (15)  
Or  
(b) Classify the IoT or Machine-to-Machine Application Platforms in SAP applications CO2- U (15)

9. (a) Examine the IoT Device integration concepts in Machine to Machine Communication device applications CO3-U (15)
- Or
- (b) Describe the role and responsibilities of the IoT technologies and tools for the smarter enterprises and environments. CO3-U (15)
10. (a) Illustrate the prominent products of NEST. CO4-U (15)
- Or
- (b) Outline the water management solution in IOT environment with an example. CO4-U (15)