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Question Paper Code: U6801

B.E./B.Tech. DEGREE EXAMINATION, NOV 2024

Sixth Semester

Information technology

21UIT601 INTERNET OF THINGS

(Regulations 2021)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 5 = 25 Marks)

1. Discuss the key drivers for the IoT discipline. CO1-U
2. Describe the latency and bandwidth requirements of various types of IoT services. CO1-U
3. Explain the Bluetooth Low Energy protocol in Infrastructure layer. CO1-U
4. List the five tasks of smarter enterprises. CO1-U
5. Analyze Cloud based IoT data processing and application development. CO2-App

PART – B (5 x 15= 75 Marks)

6. (a) Show the process of AWS IoT in IIOT. CO1-U (15)
Or
(b) Explain Envisioning Cognitive IOT in various IOT API. CO1-U (15)
7. (a) Explain the IoT framework for 5G network with software-based component. CO1-U (15)
Or
(b) Describe the Near Field Communication Technology (NFC) in various IOT enabled communication. CO1-U (15)
8. (a) Show the protocol architecture of Z-Wave and Zig bee with its features. CO2-App (15)
Or
(b) Develop suitable Architecture for IoT communication is to support IEEE 802.15.4 low-power wireless networks in the 2.4-GHz band. CO2-App (15)

9. (a) Explain the scenario of sensor to cloud integration in three layered architecture. CO1-U (15)
- Or
- (b) Describe the role and responsibilities of the IoT technologies and tools for the smarter enterprises and environments. CO1-U (15)
10. (a) Apply the AxedaIoT platform in M2M data integration CO2-App (15)
- Or
- (b) Illustrate the Machine-to Machine Application platforms. CO2-App (15)