Reg. No. : ⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚

Question Paper Code: U6801

B.E./B.Tech. DEGREE EXAMINATION, APRIL 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 Evolution of the Internet paradigm.	CO1-U
2.	List the main requirements of mobile network to support IoT devices.	CO1-U
3.	Explain IEEE 802.15.4 Architecture.	CO1-U
4.	Draw a detailed diagram of DPWS OSI model.	CO1-U
5.	Analyze Cloud based IoT data processing and application development.	CO2-App

PART – B (5 x 15= 75 Marks)

6. (a) Explain the Industrial Internet of Things (IIoT) with sample use   CO1-U   (15)
         cases.

                                Or

    (b) Explain Azure IoT Hub device management.   CO1-U   (15)

7. (a) Explain the IoT framework for 5G network with software-based   CO1-U   (15)
         component.

                                Or

    (b) Describe the Near Field Communication Technology (NFC) in   CO1-U   (15)
         various IOT enabled communication

8. (a) Elaborate the energy harvesting process for power conservation in   CO2-App   (15)
         the IoT system for a wireless sensor network.

                                Or

    (b) Illustrate the various key cross OS platforms for Mobile   CO2-App   (15)
         Application Development Platforms.

9. (a) Explain the scenario of sensor to cloud integration in three layered   CO1-U   (15)
architecture.

<div align="center">Or</div>

(b) Describe the role and responsibilities of the IoT technologies and   CO1-U   (15)
tools for the smarter enterprises and environments.

10. (a) Illustrate the prominent products of NEST.   CO2-App   (15)

<div align="center">Or</div>

(b) Discuss the IoT Application development and deployment   CO2-App   (15)
platforms.

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