

Seat Number: - _____

Duration: 2 1/2 Hrs

H43A23IOT

Marks: - 75

Note: - 1) All questions are compulsory.

2) Figures to the right indicate maximum marks.

Q1. Attempt any "Four" of the following: (5X4)

(20)

1. Compare APU & GPU. (CO3-U)
2. Explain briefly about IOT enabling technology. (CO3-R)
3. Write a short note on IOT protocol. (CO1-U)
4. List and explain IOT communications models. (CO2-R)
5. Explain low power WANs. (CO1-U)
6. Briefly explain Node MCV. (CO3-U)

Q2. Attempt any "Four" of the following: (5X4)

(20)

1. Explain the communication and security protocol in IOT. (CO2-R)
2. List the features of UART. (CO3-R)
3. What are the features of MQTT? (CO3-U)
4. Compare Between analogy and digital sensors. (CO4-U)
5. Write a python program for controlling LED with switch. (CO4-U)
6. Explain various security issues in IOT. (CO4-U)

Q3. Attempt any "FOUR" of the following: (5X4)

(20)

1. Compare cloud computing and FOG Computing. (CO2-U)
2. List the applications of IOT. (CO2-R)
3. Define IOT levels. (CO2-R)
4. List the advantages of edge computing. (CO2-R)
5. What are the disadvantages of edge computing? (CO2-R)
6. Write a case study on IOT system for weather monitoring. (CO3-U)

Q4. Attempt any "THREE" of the following: (3x5)

(15)

1. Write short note on LWM2M. (CO1 -R)
2. Explain IOT framework. (CO3-R)
3. Write the steps in IOT design methodology. (CO3-R)
4. Explain database servers in IOT. (CO2-R)
5. What is I2C? Explain. (CO2-R)
6. Write a program for 60 percent duty cycle in PWM. (CO3-U)

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