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USN

15CS81

Eighth Semester B.E. Degree Examination, June/Jule 2019 Internet of Things Technology

Time: 3 hrs. Max. Marks: 80

| U | | Note: Answer FIVE full questions, choosing one fidl question from each module. | | |
|---------------------------------------|----------|--------------------------------------------------------------------------------------|------------|--|
| u B 7z, P | | Module-I | | |
| 7 <u>z,</u> | 1 | a. What is 10T? Explain in detail on Genessis of | (08 Marks) | |
| г | • | b. What does IOT and digitaization mean? Elaborate on this concept. | (04 Marks) | |
| c.3 | | c. Write a short note on "IOT impact in Real World". | (04 Marks) | |
| VI 0., t4 | | OR | | |
| 4 _?- | 2 | a. Discuss IOT challenges. | (08 Marks) | |
| 8' | | b. With a neat diagram, explain architecture of IOT. | (04 Marks) | |
| <u>. 1</u> | | c. Explain Core IOT functional stack. | (04 Marks) | |
| as 71- | | Module-2 | | |
| 9-) a) 2) | 3 | a. List and explain different types of sensors. | (08 Marks) | |
| - J | | b. Elaborate on small physical objects and small virtual objects. | (04 Marks) | |
| I) ul 4. 0 Z Ts U (1) 1 8 | | c. Explain "IOT Access Technologies". | (04 Marks) | |
| ŽĪ | | OR | | |
| U (1) i 8 | 4 | a. Briefly explain protocol stack utilization IEEE 802.15.4. | (08 Marks) | |
| • | | b. What is SANET? Explain some advantages and disadvantages that a wireless base | | |
| ;;:1 8 | | offers. | (08 Marks) | |
| iž Tt | | Module-3 | | |
| -0 = | 5 | a. Explain working of IP as the IOT network layer. | (08 Marks) | |
| ,, ≱₁ tu | | b. Write note on Busines case for IP. | (04 Marks) | |
| M. P P M. M. | | c. Discuss need for optimization. | (04 Marks) | |
| , ' : <u>-</u> - ti | | OR | | |
| ·_ **** | 6 | a. Describe application protocols for 10T. | (08 Marks) | |
| = 9-,F "ZfJ | | b. Discuss the various methods used in IOT application transport.t | (08 Marks) | |
| CTi ' | Module-4 | | | |
| 8 ₹ ₽ | 7 | a. What do you mean by data and analytics for 10T? Explain. | (04 Marks) | |
| = r. | | b. Discuss Bigdata analyties tools and technology. | (04 Marks) | |
| | | c. With a case study relate the concept of securing 10T. | (08 Marks) | |
| 2 | | OR | | |
| | 8 | a_ Explain in detail how IT and OT security practices and systems vary in real time. | (08 Marks) | |
| i- O | | b. Discuss OCTAVE and FAIR formal risk analysis. | (08 Marks) | |



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Module-5

9 a. Give a brief note on Arduino UNO.

(04 Marks)

b. With a neat diagram, explain Raspberry Pi board.

(04 Marks)

c. With a neat diagram, explain wireless temperature monitoring system using Raspberry Pi.

(**08** Marks)

OR

10 a. Explain in detail smart city 101' architecture.

(08 Marks)

b. With the case study explain smart and connected cities using Raspberry Pi.

(08 Marks)

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