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Question Paper Code: 97203

B.E./B.Tech. DEGREE EXAMINATION, NOV 2023

Seventh Semester

Computer Science Engineering

19UCS703 - BUILDING INTERNET OF THINGS

(Regulation 2019)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

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| 1. Build the physical design of IoT | CO1-U |
| 2. Compare the different types of topologies used for connecting IoT devices | CO1-U |
| 3. Discuss the networks used for M2M | CO1-U |
| 4. Write a summary of cellular M2M market situation | CO1-U |
| 5. How to partition the architecture work and solution work into two domains | CO2-App |
| 6. List the functional Components of Service organization with diagram | CO1-U |
| 7. List the need of Process management functional group | CO1-U |
| 8. Define Device and Application functional group | CO1-U |
| 9. List out the Vulnerabilities of IoT | CO1-U |
| 10. Differentiate spoofing and eavesdropping | CO1-U |

PART - B (5 x 16= 80 Marks)

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|---|---------|------|
| 11. (a) With neat sketch explain the Physical and Logical design of IoT. | CO1-U | (16) |
| Or | | |
| (b) Explain the various IoT Communication models in Home automation system. | CO1-U | (16) |
| 12. (a) Characterize a smart city traffic environment using M2M Communication System in IoT | CO2-App | (16) |

Or

- (b) Apply M2M towards IoT to provide solution for the wider global economy and society. CO2-App (16)
13. (a) Describe in brief IoT outline architecture for Parking system. CO1-U (16)
Or
(b) Illustrate with neat sketch Standards Consideration for any IoT system. CO1-U (16)
14. (a) Explain the Deployment and operational view of smart city applications CO1-U (16)
Or
(b) Describe the Interaction and remote control in Monitoring Air Pollution CO1-U (16)
15. (a) Analyze the threats related issues on different OSI layers of network CO3-Ana (16)
Or
(b) Analyze the vulnerabilities of IoT and Illustrate with a specific case CO3-Ana (16)