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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

SECOND SEMESTER M.TECH DEGREE EXAMINATION, JUNE 2023

Course Code: 222ECS001

Course Name: WIRELESS SENSOR NETWORKS

Max. Marks : 60 **Duration: 2Hrs 30 Minutes**

PART A

Answer All Questions. Each Question Carries 5 Marks

1. What are the Basic requirements of Wireless Sensor network node? (5)
2. What is the feature of IEEE 802.11? (5)
3. What is S-MAC protocol? (5)
4. Define Security attacks in WSNs? (5)
5. What are Coverage measures? (5)

Part B

(Answer any five questions. Each question carries 7 marks)

6. What are advantages and disadvantages of Microcontrollers? (7)
7. Discuss the challenges in Sensor network Programming? (7)
8. How is the design of WSN an Optimization goal? (7)
9. What is periodic wakeup concept in WSN nodes ? (7)
10. Make a comparative analysis of MAC and S-MAC protocol. (7)
11. What is the concept behind Rumour routing and its application? (7)
12. How to address the Security challenges in WSNs? ? (7)

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