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Total No. of Printed Pages: [01]

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M. Tech CSE (Semester – 1st)
WIRELESS SENSOR NETWORKS
Subject Code: MCSCE1-157
Paper ID: [190205]

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It carries 16 marks. It consists of 4 questions of 4 marks each.
2. Section B consist of 4 questions of 8 marks each. The student has to attempt any 3 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(4 marks each)

- Q1. What is Mote? How does it work?
- Q2. What are Markov chains useful for?
- Q3. Differentiate between broadcast and multicast.
- Q4. What are the advantages of SPIN?

Section – B

(8 marks each)

- Q5. What are the performance metrics of WSN?
- Q6. What is ns-3? What will you use it for?
- Q7. What are the applications and characteristics of MANET?
- Q8. What is the security of WSN network? How is it ensured?

Section – C

(10 marks each)

- Q9. What is WSN? What are its the applications?
- Q10. What are the types of routing used in WSN? Explain any one in detail.
- Q11. What is MAC protocol and its analysis? How is the analysis done?