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Total No. of Printed Pages: [1]

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B. Tech CSE (Sem: 7th)
ADHOC AND SENSOR NETWORKS
Subject Code: BCSED1-714
Paper ID: [18111142]

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 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

(2 marks each)

Q1. Attempt the following:

- a) What do you mean by handoff?
- b) Why real-time MAC protocols are used?
- c) Define S-MAC protocol.
- d) What is the importance of table-driven protocols?
- e) List any two design issues for routing protocols.
- f) What is use of MACAW protocol?
- g) Write the significance of ultrawide bandwidth technology.
- h) In which situation, flooding protocols are used?
- i) What is single-sink multihop WSN?
- j) Write the full form of PEGASIS protocol.

Section – B

(5 marks each)

- Q2. Discuss various issues in Adhoc wireless networks.
- Q3. How contention based protocols work?
- Q4. What is the importance of power aware routing protocols?
- Q5. Why AODV protocol is used?
- Q6. Discuss various applications of ZigBee technology.

Section – C

(10 marks each)

- Q7. Draw and explain node and network architecture of WSN.
- Q8. Describe LEACH IEEE 802.15.4 MAC protocol in detail.
- Q9. Write and explain location based routing protocols.