Roll No……..….. **Total No. of Printed Pages: [1]**
Total No. of Questions: [09]

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.