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Total No. of Pages : 02

Total No. of Questions : 18

B.Tech. (Computer Science Engg.) (Sem.-7,8)
ADHOC AND WIRELESS SENSOR NETWORKS

Subject Code : BTCS-716-18

M.Code : 90507

Date of Examination : 08-07-22

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A** is **COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **FIVE** questions carrying **FIVE** marks each and students have to attempt any **FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **TEN** marks each and students have to attempt any **TWO** questions.

SECTION-A

Write briefly :

- 1) Define Wireless sensor Network.
- 2) What is a contention based protocol?
- 3) AODV.
- 4) List five applications of Ad hoc and sensor network.
- 5) What do you understand by low duty cycle protocol?
- 6) What is hybrid routing?
- 7) List the hardware components of a sensor network.
- 8) What are the network security requirements?
- 9) What is reactive routing?
- 10) DSDV.

SECTION-B

- 11) What are the issues in designing a MAC protocol for Ad hoc wireless networks?
- 12) What are the design goals of a Transport Layer Protocol Ad hoc wireless networks?
- 13) Explain single node architecture for sensor network.
- 14) Differentiate contention based and schedule based protocol.
- 15) Explain in briefly :
 - a) Table Driven Routing Protocol.
 - b) SPINS.

SECTION-C

- 16) Explain Sensor Network Architecture and Sensor Network Scenarios.
- 17) What are the network security requirement issues and challenges in security provisioning network?
- 18) Explain the design goals of Transport layer protocols for Ad hoc wireless networks.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.