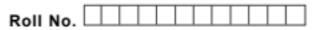


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M.Tech. (CSE Engg.)E-I (2018 Batch) (Sem.-1) WIRELESS SENSOR NETWORKS Subject Code : MTCS-106-18 M.Code : 75156

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

- 1. Attempt any FIVE questions out of EIGHT questions.
- 2. Each question carries TWELVE marks.
 - 1. a. General MAC protocols can result in a waste of energy in WSNs. How?
 - b. Classify the routing protocols for Wireless Sensor Networks.
 - Answer the following :
 - a. Different applications of sensor Networks.
 - b. Explain overall architecture of Wireless Sensor Networks.
 - 3. Explain basic hardware and software subsystems of sensors.
 - Answer the following :
 - a. How are Wireless Sensor Networks different from traditional networks?
 - b. Difference between single hop and multiple hop in WSNs.
 - What are the characteristics of Operating Systems in Wireless Sensor Networks? Explain different operating Systems used in WSNs.
 - 6. Explain the basic architecture of wireless sensor node with the help of a block diagram.
 - 7. What are the possible attacks in WSNs? What are the countermeasures?
 - 8. Explain the following network models of WSNs :
 - a. MAC Model
 - b. Routing Model

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.

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