

Code No: 137SW

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, March - 2021

ADHOC AND SENSOR NETWORKS

(Computer Science and Engineering)

Time: 3 Hours

Max. Marks: 75

Answer any Five Questions
All Questions Carry Equal Marks

- 1.a) Explain the characteristics of a MANETs.
- b) Describe how to find the route from source to destination by using AODV protocol.[7+8]
- 2.a) Explain about the components of Core Extraction Distributed Adhoc Routing protocol.
- b) Explain about the Signal Stability Routing protocol. [8+7]
- 3.a) Explain the Probability based methods in MANETs.
- b) Explain about the header format of TCP. [8+7]
- 4.a) Explain the classification of Multicast Routing protocols.
- b) Explain the drawback of TCP exponential backoff algorithm in MANETs. [7+8]
- 5.a) Explain the functional block diagram of sensor node.
- b) Explain the applications of WSNs. [8+7]
- 6.a) Distinguish between Flat versus Hierarchical topologies used in WSNs.
- b) Describe the reasons why traditional routing protocols are not suitable for WSNs. [8+7]
- 7.a) Explain about Authenticated Routing for Adhoc Networks Protocol.
- b) Explain the challenges of Sensor Network Programming. [8+7]
- 8.a) Explain the components of TinyOS.
- b) Explain the types of operators used in nesC. [7+8]

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