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Code No: 137SW

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, February/March - 2022

ADHOC AND SENSOR NETWORKS

(Computer Science and Engineering)

Time: 3 Hours

Max. Marks: 75

Answer any Five Questions  
All Questions Carry Equal Marks

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- 1.a) Describe the phases of Associativity Based Routing protocol.
- b) Explain the applications of MANETs. [8+7]
- 2.a) Explain the mechanism for transmitting the data from source to destination in AODV Protocol.
- b) Explain about Grid location service. [10+5]
- 3.a) Explain the probability based methods used in Manet.
- b) Explain about the Adhoc Multicast Routing Protocol. [7+8]
- 4.a) How many ways Adhoc Broadcast Protocol differ from Multipoint Relaying. Explain in Detail.
- b) Explain how the route is established in Contention based Path Selection protocol. [9+6]
- 5.a) Explain the reasons why traditional routing protocols are not well suited in WSNs.
- b) Explain about the clustering of sensor nodes in WSNs. [7+8]
- 6.a) Distinguish between Hierarchical and Flat topologies for WSNs.
- b) Explain the applications of WSNs. [10+5]
- 7.a) Explain about the Diffie-Hellman key agreement protocol.
- b) Explain the challenges of Sensor network programming. [8+7]
- 8.a) Explain about the architecture of TinyOS.
- b) Explain the design and implementation of TinyGALS. [7+8]

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