

Code No: 137SW**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech IV Year I Semester Examinations, July/August - 2022****AD HOC AND SENSOR NETWORKS****(Computer Science and Engineering)****Time: 3 Hours****Max.Marks:75**

Answer any five questions
All questions carry equal marks

- 1.a) List and explain in detail about the characteristics of MANETS.
- b) Define MANETS. List and explain the factors that influence routing in MANETS. [8+7]
2. Explain how to find the route from source to destination by using position-based routing algorithm? [15]
3. With an example explain how data transmission is performed using multicast routing protocol? [15]
4. Draw a neat diagram to explain the concepts of TCP protocol. [15]
- 5.a) List and explain the classification of wireless sensor networks.
- b) Illustrate in detail about the mica and mote in wireless sensor networks. [8+7]
6. Explain the design of routing protocol for WSNs which influence fault tolerance, security, connectivity, Adhoc deployment and QoS. [15]
7. Describe in detail the concept of N-party Diffie-Hellman key agreement used for key management. [15]
8. Describe TinyOS with details of "Field Monitor" application and Timer component Interfacing? [15]

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