



R18 Regulation

Subject code:2E8EC

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech VIII Semester Supplementary Examinations, April, 2024

Adhoc Wireless Networks

(CSE)

Maximum Marks: 70

Date:22.04.2024 Duration: 3 hours

- Note:
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit which carries 10M.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks

(10X2M=20 Marks)

- 1 What is ad hoc wireless network?
- 2 State any two applications of ad hoc networks.
- 3 What is the difference between ad hoc and MANET?
- 4 What is D-PRMA?
- 5 What is process of DSDV?
- 6 What is data dissemination in a wireless sensor network?
- 7 What is Split TCP?
- 8 Define a black hole attack.
- 9 What is need of Network security Requirements?
- 10 Write any two differences between Symmetric and Asymmetric key Algorithms?

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 What is a routing protocol? Outline the issues in designing a routing protocol for ad hoc wireless networks. (10M)
OR
- 12 Design and explain: WSN based border protection system in order to detect the entry of terrorist in the line of control. (10M)
- 13 What is the need of power aware multi-access protocol for defining WSN MAC? also briefly describes the working model of power aware multi-access signaling protocol. (10M)
OR
- 14 Explain MAC protocol for Ad-hoc wireless Networks. (10M)
- 15 Explain the DSR (Dynamic Source Routing) Protocol with an example. (10M)
OR
- 16 Discuss the table-driven routing Protocols with an example. (10M)
- 17 Discuss the suitable routing protocol for intelligent transport system. (10M)
OR
- 18 Explain the working nature of Transport Layer Protocols for Ad-hoc wireless Networks? (10M)
- 19 Outline the features of node-level simulators for wireless sensor networks. (10M)
OR
- 20 Explain any two concepts related to Secure routing in Ad hoc wireless Networks? (10M)