



B. Tech VII Semester Supplementary Examinations, December 2024

MOBILE ADHOC NETWORK

(IT)

Maximum Marks: 70

Date: 07.01.2025

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	Define security threats.
2	Define Doppler Shift.
3	What is Bandwidth Efficiency?
4	Define IEEE 802.11.
5	Define DSDV Protocol.
6	Distinguish between Unicast Routing and Multicast Routing Algorithm.
7	Define Network Layer Attacks.
8	Define Security issue.
9	What is Multi-Hop and Ad-Hoc Networks?
10	Write the Home Network.

Part-B

Answer All the following questions. (10MX 5=50Marks)

11	a) What are the characteristic features of Mobile Ad-hoc Networks? [5M]
	b) Illustrate Ad-hoc Mobility of Indoor and Outdoor Models. [5M]
OR	
12	Discuss the characteristics of wireless channel and explain in detail. [10M]
13	Describe Contention-Based MAC protocol with Reservation Mechanism and Explain about Synchronous Protocol- D-PRMA. [10M]
OR	
14	Explain IEEE Standard-802.11a, 802.11b, 802.11g, 802.15. [10M]
15	Discuss Reactive Routing Protocol and Explain-DSR Protocol. [10M]
OR	
16	a) What are the goals and classification of Network Protocol. [5M]
	b) Differentiate between Proactive and Reactive Protocol. [5M]

17	a) Classify the requirement of network security attacks. [5M]	
	b) Explain Design goal of a Transport Layer Network. [5M]	
	OR	
18	What are the classification of transport layer network and Explain Split TCP. [10M]	
19	What is the need to integrate ad hoc networks with mobile IP? Explain. [10M]	
	OR	
20	How the cross layer techniques optimize the routing in ad-hoc networks. [10M]	