PRESIDENCY UNIVERSITY
BENGALURU
School of Engineering
Mid - Term Examinations - November 2024

Semester: VII

Course Code: ECE3060

Course Name: Wireless Adhoc Networks

Program: ECE

Date: 06/11/2024

Time:11.45am to 01.15pm

Max Marks: 50

Weightage: 25%

Instructions:
(i) Read all questions carefully and answer accordingly.
(ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2 marks.   **5Qx2M =10M**

1	List the major classification of routing protocol for ad hoc wireless network.	2 Marks	L1	CO2
2	List the design goals of MAC protocol for ad- hoc networks.	2 Marks	L1	CO1
3	What are the differences between HRMA and SRMA?	2 Marks	L1	CO1
4	What are the effects of exposed terminal problem in wireless networks?	2 Marks	L1	CO1
5	Differentiate proactive and reactive protocols. Write examples for each	2 Marks	L1	CO2

Part B

Answer ALL Questions. Each question carries 10 marks.   **4QX10M=40M**

6	Identify any Ten differences between Cellular wireless networks and Ad hoc wireless networks.	10 Marks	L2	CO1

OR

7	Explain the major issues one needs to address while designing a MAC protocol for Ad hoc wireless network.	10 Marks	L2	CO1

8	Illustrate with packet exchange diagram, The MACAW protocol used in wireless ad hoc networks and its advantages over MACA protocol.	10 Marks	L2	CO1

OR

9	Explain the characteristics of an ideal routing protocol for Ad hoc wireless networks.	10 Marks	L2	CO1
10	Explain any two table driven routing protocols with their advantages and disadvantages	10 Marks	L2	CO2

OR

11	Illustrate the route establishment in Ad hoc on demand distance vector routing protocols with its advantages and disadvantages.	10 Marks	L2	CO2
12	Elaborate on Zone routing protocol and zone based hierarchical link state routing protocol.	10 Marks	L2	CO2

OR

13	Illustrate the route establishment in Destination sequenced Distance vector routing protocols with its advantages and disadvantages.	10 Marks	L2	CO2