PRESIDENCY UNIVERSITY
BENGALURU

SET-A

SCHOOL OF ENGINEERING
END TERM EXAMINATION –MAY/JUNE 2024

Semester : Semester VI - B.Tech CSE - 2021
Course Code : CSE2059
Course Name : Mobile Networking

Program : B.Tech. Computer Science and Engineering

Date : JUNE 6-2024
Time : 1:00 PM- 4:00 pm
Max Marks :100

Weightage : 50%

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Note: **1. Answer ALL 5 FULL Questions.**
2. Each Full Question carries 20 Marks
3. Scientific and non-programmable calculator are permitted.
4. Do not write any information on the question paper other than Roll Number.

1.a.	Recall the applications of wireless Ad Hoc Networks **[Knowledge]**	**(CO1)**	**(04 Marks)**
1.b.	Explain the steps for creating the Ad Hoc Wireless Network **[Comprehension]**	**(CO1)**	**(06 Marks)**
1.c.	Demonstrate the route Discovery in AODV Protocol with suitable example. **[Application]**	**(CO1)**	**(10 Marks)**

or

2.a.	How a Cellular Network can be used in real application **[Knowledge]**	**(CO1)**	**(04 Marks)**
2.b.	Interpret the various Characteristics of Ad Hoc Networks. **[Comprehension]**	**(CO1)**	**(06 Marks)**
2.c.	Use the Location Added Routing protocol for constructing an adhoc network. Identify the pros and cons of it. **[Application]**	**(CO1)**	**(10 Marks)**

3.a.	Relate Infrastructure-based and Infrastructure-less Wireless Networks. **[Knowledge]**	**(CO2)**	**(04 Marks)**
3.b.	Summarize the Flat Routing in Sensor Networks with a block diagrams. **[Comprehension]**	**(CO2)**	**(06 Marks)**
3.c.	Identify and explain the following Table-driven Routing Protocols 1.Destination Sequenced Distance Vector routing (DSDV) 2.Cluster-head Gateway Switch routing (CGSR) **[Application]**	**(CO2)**	**(10 Marks)**

or

4.a.	State the Fundamentals of MAC Protocols for Wireless Sensor Networks **[Knowledge]**	**(CO2)**	**(04 Marks)**

4.b.	Explain the fundamentals of MAC Protocols for Wireless Sensor Network [Comprehension]	(CO2)	(06 Marks)
4.c.	Illustrate the working of TEEN and APTEEN protocols with suitable timeline diagram. [Application]	(CO2)	(10 Marks)
5.a.	State about Enhanced Copper use in communication. [Knowledge]	(CO3)	(04 Marks)
5.b.	Explain the HiperLAN2 Standard for wireless networks [Comprehension]	(CO3)	(06 Marks)
5.c.	Built a Wireless ATM with suitable scenario. [Application]	(CO3)	(10 Marks)

or

6.a.	Elaborate the key scenarios of Multiple Stages of 5G Development. [Knowledge]	(CO3)	(04 Marks)
6.b.	List and explain pillars of 5G. [Comprehension]	(CO3)	(06 Marks)
6.c.	Examine and analyze the Harmonization of G3G Proposal for Protocol Layers [Application]	(CO3)	(10 Marks)
7.a	List the Principles of operations Management in wireless networks [Knowledge]	(CO4)	(04 Marks)
7.b	Explain Wireless ATM with suitable scenario [Comprehension]	(CO4)	(06 Marks)
7.c	Illustrate the Testing of Wireless Satellite Networks [Application]	(CO4)	(10 Marks)

or

8.a	Define the various testing types in wireless networks. [Knowledge]	(CO4)	(04 Marks)
8.b.	Explain the working of Fixed Wireless Broadband Networks with an example [Comprehension]	(CO4)	(06 Marks)
8.c	Compare and contrast the Testing in Wireless Satellite Networks and Fixed Wireless Broadband Networks. [Application]	(CO4)	(10 Marks)
9.a	State the action of HiperLAN2 Standard [Knowledge]	(CO3)	(04 Marks)
9.b	Relate the working of ATM and Relay Technologies in wireless communication [Comprehension]	(CO3)	(06 Marks)
9.c	Develop a wireless network with 5G Technologies and explain it with a block diagram. [Application]	(CO3)	(10 Marks)

Or

10.a	State the activities in managing wireless networks. [Knowledge]	(CO4)	(04 Marks)
10.b	Explain the uses of satellites in wireless network communications [Comprehension]	(CO4)	(06 Marks)
10.c	Sketch the Management tools of LMDS Systems with a neat diagram [Application]	(CO4)	(10 Marks)