END TERM EXAMINATION – November/December-
2022/January-2023
SEMESTER – VII
B.Tech.(CSE), {Core p DSAI }.

Subject Code: CS4027
Subject: Mobile Computing

Duration: 3 hours
Max. Marks: 100

Instructions

- All Questions are compulsory
- The Question paper consists of 2 sections - Part A contains 10 questions of 2 marks each. Part B consists of 5 questions of 16 marks each.
- There is no overall choice. Only Part B questions include internal choice.

PART – A
(2 * 10 = 20 Marks)

1. What are the challenges faced in sensor networks?
2. Enlist the advantages and disadvantages of MANET.
3. How does the snoop protocol helps improve TCP performance?
4. Differentiate between reactive and proactive protocol?
5. Enlist the advantages of the mobile agent paradigm.
6. List down the features of Mobile IP.
7. What is the exposed terminal problem?
8. What does 2.4 GHz FHSS mean?
9. Explain the Client-server paradigm.
10. What is the advantage of mobile computing?

PART – B
(16 * 5 = 80 Marks)

11. a) What is an ad-hoc network? Why do we need an ad-hoc network? What is Wireless Computing? Give some of the applications of wireless computing.

OR

b) Define mobile computing. What are the challenges of Mobile computing? What is Pervasive computing? How is it different from invisible computing?

12. a) What do you mean by routing? Explain Cluster-based routing protocol. Give two advantages and disadvantages of CBRP.

OR

b) Differentiate between Unicast, Multicast, and broadcast. Discuss the steps of the Destination Sequenced Distance Vector routing protocol.

13. a) What do you understand by the term TCP? Explain the terms: I-TCP, M-TCP, and Snoop TCP with examples.

OR

b) What do you understand by the term database management? Explain some of the data management issues.

14. a) What is a mobile agent? What are the characteristics of a mobile agent? Explain the Code-on-demand paradigm with its application.

OR

b) What are some of the security issues while working with a mobile agent? What is the role of protecting agencies?

15. a) What are sensor networks? How are they different from ad-hic networks? What are the different types of sensor networks?

OR

b) What are the advantages and disadvantages of WLAN? Distinguish between PCF and DCF.