

C

Reg. No. :

--	--	--	--	--	--	--	--	--	--	--

Question Paper Code: 99225

B.E./B.Tech. DEGREE EXAMINATION, MAY 2022

Elective

Computer Science and Engineering

19UCS925- Mobile and Pervasive Computing

(Régulations 2019)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

1. Which of the following usually stores all user-related data that is also relevant to GSM mobile systems? CO1- U
(a) VLR (b) HMR (c) CMR (d) SIM
2. Which of the following offers packet mode data transfer service over the cellular network? CO1- U
(a) TCP (b) GPRS (c) GSM (d) None of the above
3. The most WLANs are based upon _____ CO1- U
(a) IEEE 802.11 (b) WiFi (c) Both a and b (d) None of the above
4. The advantages of WLANs are — CO1- U
(a) Flexibility (b) Robustness (c) Less cost (d) All of the above
5. Which of the Following is used in banking industry..... CO5- U
(a) Micr (b) omr (c) both a and b (d) None of the above

PART – B (5 x 3= 15 Marks)

6. What is mobile computing? CO1- U
7. What are the features of LTE-A? CO1- U
8. Mention some of the disadvantages of WLANS? CO1- U
9. What are the advantages of WML Script over WML? CO1- U
10. Define Crusoe processor. CO1- U

PART – C (5 x 16= 80 Marks)

11. (a) Consider the following scenario. Ram uses 1G, while Bob, Chew, and Doll use 2G, 3G, and 4G, respectively. Ram aspires to be Bob, Bob aspires to be Chew, and Chew aspires to be Doll. Assist Ram, Bob, and Chew in improving themselves by providing details about what they are missing. CO2- App (16)
- Or
- (b) Consider a scenario and offer your recommendation for the best strategy. A satellite's service may be available at a certain location on the earth station at times, but not at others. To put it another way, a satellite may have its own service stations scattered over the world. They transmit a signal to the satellite carrier. We must employ mechanisms that allow satellites to simultaneously receive and broadcast signals from several stations without interfering with one another CO2- App (16)
12. (a) Explain in detail about the system architecture of GSM. CO1- U (16)
- Or
- (b) Describe the function of HLR and VLR in call routing and roaming? CO1- U (16)
13. (a) Explain about the characteristics of Bluetooth and Wi-Fi in detail CO1- U (16)
- Or
- (b) Explain how mobile IP is different from DHCP. State some applications of DHCP CO1- U (16)
14. (a) Explain in detail about WAP architecture. CO1- U (16)
- Or
- (b) Write notes on WDP and WTLS. CO1- U (16)
15. (a) Discuss in detail about any two Pervasive Applications of your choice in detail. CO1- U (16)
- Or
- (b) Explain about the various hardware components involved in Pervasive Computing Devices. CO1- U (16)