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Question Paper Code: 99225

B.E./B.Tech. DEGREE EXAMINATION, NOV 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. Mobile Computing allows transmission of data from one wireless-enabled device to another _____ CO1- U
(a) Any device (b) Wired device (c) Wireless-enabled device (d) one of the above
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 are the several versions in CSMA? 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) Explain about MAC Protocols in detail CO1- U (16)
Or
(b) What is Mobile computing and give its application in detail CO1- U (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) Explain how a Pervasive Web Application can be secured using an ‘Authentication Proxy’. CO1- U (16)
Or
(b) How security is achieved in MVC and JSP based applications? CO1- U (16)