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Question Paper Code: 59224

B.E./B.Tech. DEGREE EXAMINATION, NOV 2019

Elective

Computer Science and Engineering

15UCS924- MOBILE COMPUTING

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

1. MAC protocols works in _____ layer CO1- R
(a) Transport (b) Network (c) Data link (d) Physical
2. Mobile IP is _____ CO2- U
(a) Static (b) Dynamic (c) Fixed (d) None of these
3. GSM was introduced in _____ Generation of networks CO3- U
(a) First (b) Second (c) Third (d) Fourth
4. DSR Stands for CO4- R
(a) Distance source routing (b) Dynamic source routing
(c) Differential speed routing (d) None of these
5. Mobile OS used in Apple phones are called as CO5- U
(a) AppleOS (b) IOS (c) Android (d) None of these

PART – B (5 x 3= 15 Marks)

6. List few Unique characteristics of Mobile computing. CO1- U
7. State the limitations of Conventional TCP in mobile networks. CO2- R
8. List the different types of nodes and their responsibilities in GPRS. CO3- U
9. List some application of Ad hoc networks. CO4- U
10. State the main requirements of Mobile OS. CO5- U

PART – C (5 x 16= 80 Marks)

11. (a) (i) Compare Mobile computing and wireless networks CO1- U (8)
(ii) Examine the different Wireless MAC issues. CO1- U (8)
- Or
- (b) Examine the working principle of Reservation Based Protocols in detail. CO1- U (16)
12. (a) Discuss in detail about the salient features and working of Mobile IP. CO2-U (16)
- Or
- (b) Elaborate on any two mechanisms used in TCP to get improved performance in wireless environment. CO2-U (16)
13. (a) Elaborate on the components involved in GSM architecture and its working principle. CO3- U (16)
- Or
- (b) With suitable illustration explain GPRS in operation. CO3- U (16)
14. (a) (i) Discuss in detail the working principle of Dynamic source routing protocol. CO4- U (10)
(ii) Compare Table driven routing and On demand routing CO4- U (6)
- Or
- (b) (i) Discuss on the design issues for Mobile ad hoc networks CO4- U (8)
(ii) Explain the concept of security provisioning in ad hoc networks. CO4- U (8)
15. (a) Examine the design issues in Mobile Payment System. List the different solutions for that. CO5- App (16)
- Or
- (b) State the difference between Open source and Proprietary OS. CO5- App (16)
Examine Android and IOS with respect to their salient features and software development cycle.