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**Question Paper Code: 59022**

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2017

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. In which layer the IP protocol is used
  - (a) Transport
  - (b) Network
  - (c) Session
  - (d) Application
2. TCP is stands for
  - (a) transport control protocol
  - (b) transmission control protocol
  - (c) translate control protocol
  - (d) none of these
3. TDMA allows the user to have
  - (a) Use of same frequency channel for same time slot
  - (b) Use of same frequency channel for different time slot
  - (c) Use of same time slot for different frequency channel
  - (d) Use of different time slot for different frequency channels
4. GSM is an example of
  - (a) TDMA cellular systems
  - (b) FDMA cellular systems
  - (c) CDMA cellular systems
  - (d) SDMA cellular systems
5. Which operating system is used for Apple products?
  - (a) Android
  - (b) Black Berry
  - (c) IOS
  - (d) None of these

PART - B (5 x 3 = 15 Marks)

6. Define mobile computing.
7. What is ARP?
8. What is cellular network?
9. Define routing.
10. List out the advantages of mobile payment system..

PART - C (5 x 16 = 80 Marks)

11. (a) Explain in detail about the fixed assignment schemes. (16)  
Or  
(b) Discuss about the mobile computing applications. (16)
  12. (a) Explain in detail about the mobile IP. (16)  
Or  
(b) Draw and explain the TCP protocol. (16)
  13. (a) Explain the GSM Architecture in detail. (16)  
Or  
(b) Discuss about the GPRS in detail. (16)
  14. (a) Discuss about the traditional routing protocols. (16)  
Or  
(b) Explain in detail about VANET. (16)
  15. (a) Define commercial mobile operating system and explain Android. (16)  
Or  
(b) Explain in detail the online payment system with an example. (16)
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