

B.E / B.TECH. DEGREE EXAMINATIONS: NOV/DEC 2010

Seventh Semester

U07CS702: MOBILE COMPUTING

(Common to Computer Science and Engineering & Information Technology)

Time: Three Hours

Maximum Marks: 100

Answer ALL Questions:-

PART A (10 x 1 = 10 Marks)

1. In a signal if a particular signal pattern repeats over a time systematically it is a
 - a) aperiodic signal
 - b) periodic signal
 - c) Time signal
 - d) Systematic signal
2. The frequency of microwave transmission are
 - a) 3 GHz to 30 GHz
 - b) 2 GHz to 40 GHz
 - c) 4 GHz to 40 GHz
 - d) 5 GHz to 40 GH
3. SMS stands for
 - a) Simple Message Service
 - b) System Message Service
 - c) Stop Message Service
 - d) Short Message Service
4. DAB (Digital Audio Broadcasting) systems use
 - a) Single frequency networks
 - b) multiple frequency networks
 - c) double frequency networks
 - d) base frequency networks
5. _____ offers both asynchronous and time-bounded service.
 - a) DCF
 - b) PCF
 - c) ACF
 - d) MCF
6. A _____ is a collection of Bluetooth devices which are synchronized to the same hopping sequence.
 - a) MANET
 - b) WATM
 - c) piconet
 - d) Ethernet
7. The _____ defines the current location of the MN from an IP point of view.
 - a) FA
 - b) HA
 - c) MN
 - d) COA
8. The _____ is used to simplify the installation and maintenance of networked computers.
 - a) ARP
 - b) RARP
 - c) DHCP
 - d) HTTP
9. The sender retransmit the missing packets before the timer expires is called
 - a) fast recovery
 - b) fast retransmit
 - c) slow start
 - d) flow control
10. WDP stands for
 - a) Wireless Datagram Protocol
 - b) Wireless Data Protocol
 - c) Wired Datagram Protocol
 - d) Wired Data Protocol

PART B (10 x 2 = 20 Marks)

11. Define wavelength.
12. What are the basic shift keying methods?
13. What is GEO?
14. What are the benefits of IMT-2000 over 2G systems?
15. What is Bluetooth?
16. What are the security procedures opted by IEEE 802.11 standard?
17. What is encapsulation?
18. Compare DSDV and DSR Routing protocols.
19. What are the different services offered by WTP?
20. State any two disadvantages of selective retransmission.

PART C (5 x 14 = 70 Marks)

21. (a) Explain about the different types of multiplexing in detail with neat sketch?
(OR)
(b) Explain about TDMA concepts in detail.
22. (a) Discuss about the system architecture & protocol architecture of GSM.
(OR)
(b) Explain about Digital Video Broadcasting concepts in detail.
23. (a) Draw and explain the system architecture and protocol architecture of IEEE 802.11.
(OR)
(b) Explain about the architecture of Bluetooth and Security with neat sketch.
24. (a) Explain about Dynamic Source Routing concepts in detail?
(OR)
(b) Explain about Mobile IP concepts in detail.
25. (a) Discuss about the following
 - (i) Indirect TCP (7)
 - (ii) Snooping TCP (7)(OR)
(b) Explain about Wireless Application Protocol in detail.
