(6 pages)

Reg. No. : ....

Code No. : 7926   Sub. Code : PCSE 33

M.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2019.

Third Semester

Computer Science

Elective : MOBILE COMPUTING

(For those who joined in July 2017 onwards)

Time : Three hours   Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. The three-tier in mobile computing are ————

    (a) Physical application, data

    (b) Presentation, application, data

    (c) Presentation, physical, data

    (d) Session, data, application

2. CDMA stands for ————.

    (a) Cost Division Multiple Access

    (b) Carrier Division Multiple Access

    (c) Code Division Multiple Access

    (d) Circular Division Multiple Access

3. In the Mobile IP ———— encapsulation mechanism is used.

    (a) TCP with IP   (b) UDP with IP

    (c) IP with IP   (d) IP without IP

4. In SMS, the two types are ————.

    (a) SM MT, SM MU

    (b) SM MU,SM MS

    (c) SM MT, SM MI

    (d) SM MT, SM MO

5. WAP stands for ————.

    (a) Wireless Application Protocol

    (b) Wired Application Protocol

    (c) Wireless Access Protocol

    (d) Wired Access Protocol

6. ─────── acts as a gateway to perform coding and encoding between cellular devices and web servers.

   (a) WAP
   (b) WAN
   (c) WML
   (d) MANET

7. ─────── is the process of moving from one cell to another without losing connection.

   (a) Forwarding
   (b) Diverting
   (c) Roaming
   (d) None

8. The MAC layer is present in which of these layers?

   (a) Physical
   (b) Data Link
   (c) Network
   (d) Transport

9. The people who try to break the secrecy of cryptography is called

   (a) techanalyst
   (b) cryptographer
   (c) cryptanalyst
   (d) hacker

10. Symmetric key cryptography uses ─────── key for both encryption and decryption process.

    (a) same
    (b) different
    (c) few
    (d) various

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Explain the types of networks in Mobile computing.

    Or

    (b) Describe the architecture of Mobile Computing in detail.

12. (a) Write the short notes on RFID.

    Or

    (b) Give short notes on strength/unique characteristics of SMS.

13. (a) Illustrate in detail about limitations of GPRS network?

    Or

    (b) Explain about the MMS in detail.

14. (a) Explain in detail about the advantages of Wireless LAN.

    Or

    (b) Give detail account on Intelligent network approach.

15. (a) Explain about the GUI interface in Palm OS.

Or

(b) Write in detail about Secure Socket layer.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Explain in detail about applications and services of Mobile Computing.

Or

(b) Explain the three-tier architecture of mobile computing in detail.

17. (a) Write a detail about Bluetooth protocol stack.

Or

(b) Explain the Mobile IP in detail.

18. (a) Give a note on GPRS network architecture in detail.

Or

(b) Write a brief account on Wireless Markup Language.

19. (a) Explain the difference between 3G and Wifi.

Or

(b) Illicit in detail account on INCM model.

20. (a) Explain about the Symbian OS architecture.

Or

(b) Explain types of attacks in information security with an example.

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