(6 pages)   Reg. No. : ....

Code No. : 40390 E   Sub. Code : JMCS 5 A/
                              JMSE 5 A/SECS 5 A

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

Fifth Semester

Computer Science / Software Engineering

Major Elective –MOBILE COMPUTING

(For those who joined in July 2016 onwards)

Time : Three hours   Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Which of the following is not a WLAN component?

    (a) Wireless LAN card

    (b) Ethernet card

    (c) Access point

    (d) Bridge

2. A database that is used to track hand sets using the IMEI is

    (a) OMC   (b) HLR

    (c) EIR   (d) VLR

3. Which of the following is fixed assignment scheme?

    (a) CDMA   (b) CSMA/CD

    (c) CSMA/CA   (d) CSMA

4. The node with which the mobile node under consideration is communicating with is called as

    (a) Home Agent

    (b) Foreign Agent

    (c) Corresponding node

    (d) Mobile node

5. The _____ protocol is used for communications between a web server and the client side application running on a web browser.

    (a) SMTP   (b) FTP

    (c) ICMP   (d) HTTP

6. A ———————— maintains an audit of transactions and database changes.

   (a) Checkpoint   (b) ledger

   (c) journal   (d) budget

7. A sensor node consumes powers for

   (a) sensing   (b) communicating

   (c) data processing   (d) all the above

8. Which of the following is not a mobile operating system?

   (a) Android   (b) Xenix

   (c) Symbiam OS   (d) i OS

9. WAP is

   (a) a mark up language

   (b) a complete stack of protocols

   (c) both (a) and (b)

   (d) neither (a) nor (b)

10. ———————— is a form of commerce in which products or services are sold by a company to its dealers.

    (a) B2M   (b) B2C

    (c) C2B   (d) B2B

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).
Each answer should not exceed 250 words.

11. (a) Discuss about bluetooth technology.

    Or

    (b) Explain the structure of mobile computing application.

12. (a) Write a note on Reservation based schemes.

    Or

    (b) Discuss about route optimization.

13. (a) Describe the application layer protocols of TCP.

    Or

    (b) Explain about transaction processing in mobile environment.

14. (a) Discuss the application of WSN.

Or

(b) Explain windows mobile OS.

15. (a) Write a note on WAP.

Or

(b) Discuss the structure of mobile commerce.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b)
Each answer should not exceed 600 words.

16. (a) Discuss about wireless local user networks.

Or

(b) Explain GPRS.

17. (a) Give an account on random assignment schemes.

Or

(b) Discuss the mechanism used in mobile IP.

18. (a) Discuss the Architecture of TCP/IP.

Or

(b) Describe the transaction processing environment.

19. (a) Brief about clustered wireless sensor networks.

Or

(b) Discuss the special constraints and requirements of mobile.

20. (a) Explain Android Application development.

Or

(b) Write a note on mobile payment systems.

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