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Reg. No. :

**Code No. : 20114 E Sub. Code : JMCS 5 A/
JMSE 5 A/SECS 5 A/
SESE 5 A**

B.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2021.

Fifth Semester

Computer Science/Software Engineering

Major Elective — MOBILE COMPUTING

(For those who joined in July 2016-2019)

Time : Three hours

Maximum : 75 marks

PART A — ($10 \times 1 = 10$ marks)

Answer ALL questions.

Choose the correct answer.

1. _____ strengthens the given signal.
(a) Antenna (b) Amplifiers
(c) Transmitter (d) Transceiver
2. _____ is used for connecting two LANs in two different buildings or floors in the same building.
(a) HUB (b) Access point
(c) Bridge (d) LAN cards

3. Guard bands are present in _____.
- (a) FDMA (b) TDMA
 - (c) CDMA (d) CSMA
4. A mobile node connected to a foreign link acquires _____.
- (a) Agent Advertisements
 - (b) COA
 - (c) Proxy ARP
 - (d) None
5. UDP uses _____ type of service.
- (a) Connection Oriented
 - (b) Connectionless
 - (c) Both (a) and (b)
 - (d) None
6. _____ does not violate the integrity constraints associated with the state.
- (a) Isolation (b) Durability
 - (c) Consistency (d) Atomicity

7. _____ is liable for traffic management in WSN.
- (a) Application layer (b) Transport layer
(c) Network layer (d) Physical layer
8. _____ layer provides consistent interface to hardware and supports device independency.
- (a) OS Libraries (b) Server
(c) KVM (d) HAL
9. _____ has a lack in Security model
- (a) WAP (b) J2ME
(c) PDA (d) None
10. Protocol used in session layer for WAP is _____.
- (a) WTP (b) WSP
(c) WTLS (d) WDP

PART B — ($5 \times 5 = 25$ marks)

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

Each answer should not exceed 250 words.

11. (a) Write a note on mobile computing.
- Or
- (b) Explain Bluetooth Technology.

12. (a) Discuss about the issues of Wireless MAC Protocols.

Or

- (b) Give the requirements of Mobile IP.

13. (a) Explain about TCP in Wireless Networks.

Or

- (b) Discuss about (i) Rollback Process (ii) Two Phase Commit Protocol.

14. (a) Give the characteristics of Sensor Networks.

Or

- (b) Explain about the comparative study of Mobile OSs.

15. (a) Write a note on Mobile devices as Web Clients.

Or

- (b) Discuss about the Pros and Cons of M- Commerce.

PART C — ($5 \times 8 = 40$ marks)

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

Each answer should not exceed 600 words.

16. (a) Explain in detail Wireless Local Area Networks.

Or

- (b) Briefly explain GSM.

17. (a) Discuss about Fixed Assignment Schemes.

Or

- (b) Write in detail about Key Mechanism in Mobile IP.

18. (a) Write a note on TCP in Mobile networks.

Or

- (b) Discuss about transaction processing Environment.

19. (a) Explain any four WSN Routing Protocols.

Or

(b) Write about Special Constraints and Requirements of Mobile OS.

20. (a) Briefly explain about WAP.

Or

(b) Explain about Mobile Payment Systems.
