

Reg. No. :

**B.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2018.**

Computer Science — Main

(For those who joined in July 2016 and afterwards)

Maximum : 75 marks

Answer ALL questions.

1. UMTS stands for

2. What is the responsibility of MSC in cellular telephone system?

- Connection of mobile to base stations
- Connection of mobile to PSTN
- Connection of base station to PSTN
- Connection of base station to MSC

3. Which of the following subsystem provides radio transmission between mobile station and MSC?

- (a) BSS (b) NSS
(c) OSS (d) BSC

4. A device operating at network layer is called

- (a) Router (b) Equalizer
(c) Bridge (d) Repeater

5. In a piconet, there can be up to _____ parked nodes in the net.

- (a) 63 (b) 127
(c) 255 (d) 511

6. Bluetooth uses _____.

- (a) frequency hopping spread spectrum
- (b) orthogonal frequency division multiplexing
- (c) time division multiplexing
- (d) none of the mentioned

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7. What is WPA?
- (a) wi-Fi protected access
 - (b) wired protected access
 - (c) wired process access
 - (d) wi-Fi process access
8. What is the type of network in which the topology change from time to time?
- (a) Wi-Fi
 - (b) Cell Network
 - (c) LAN
 - (d) MANET
9. The processes that keep track of all mobile hosts visiting the area is
- (a) Home agent
 - (b) Mobile agent
 - (c) Foreign agent
 - (d) User agent
10. What is the type of network in which the routers themselves are mobile?
- (a) Wide Area Network
 - (b) Mobile Ad hoc Network
 - (c) Mobile Network
 - (d) Local Area Network

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PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) What is mobile computing ? – Explain.

Or

- (b) Discuss about Cellular Mobile Communication.

12. (a) Write short notes on Mobile IP.

Or

- (b) Discuss about Dynamic Host Configuration Protocol.

13. (a) State the terminologies of TCP/IP.

Or

- (b) Write short notes on Query Processing.

14. (a) Define WSN and its uses.

Or

- (b) Discuss about Commercial Mobile Operating System.

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[P.T.O.]



15. (a) What is meant by Web Client?

Or

- (b) List out the pros and Cons of M-Commerce.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Explain the components of a Wireless Communication System.

Or

- (b) Write detail notes on GPRS.

17. (a) List out the properties required of MAC Protocols.

Or

- (b) Explain the desirable features of Mobile IP.

18. (a) Describe the TCP application layer Protocols.

Or

- (b) Write detail notes on Mobile Transaction Models.

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19. (a) Explain the Characteristics of Sensor Networks.

Or

- (b) Write detail notes on MANET.

20. (a) Explain the application of M-Commerce.

Or

- (b) Discuss about Mobile Payment System.

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