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Reg. No. :

**Code No. : 30545 E Sub. Code : JMCA 6 C/
SECA 6 C**

B.C.A. (CBCS) DEGREE EXAMINATION,
APRIL 2020.

Sixth Semester

Computer Application – Main

Major Elective – III — MOBILE COMMUNICATION

(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. AUC stands for
 - (a) Access Centre
 - (b) Authendication Centre
 - (c) Avilable Centre
 - (d) Access Cell

2. _____ to the transceiver and antennas used in each cell of the network.
- (a) Base Transceiver (b) Base Station
(c) Networking (d) Radio Transmitter
3. _____ Generation systems use digital multiple access.
- (a) First (b) Second
(c) Third (d) Fourth
4. IEEE _____ standard for wireless LAN operations at data rates up to 2 Mbps.
- (a) 802.11 (b) 801.11
(c) 801.2 (d) 802.3
5. _____ is first manmade artificial satellite in the earth's orbit.
- (a) Explorer / (b) Echo /
(c) Sputnik (d) USA
6. Packet data communication was not supported by _____.
- (a) CDPD (b) MDDBS
(c) AMPS (d) M-ES

7. In co-channel interference, $Q = D / \text{_____}$.
- (a) K (b) R
(c) C (d) F
8. _____ protocol that analyzes the flow of the voice and signal in the CDMA.
- (a) FCM (b) FAM
(c) FEM (d) FFM
9. _____ Table containing network view of the neighbors of the node.
- (a) Routing (b) Link Cost
(c) Distance (d) Message
10. _____ approach, reducing the cell size in intelligent cell.
- (a) Conventional Microcell
(b) Conventional Minicell
(c) Conventional Middlecell
(d) Conventional Millicell

PART B — ($5 \times 5 = 25$ marks)

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

Each answer should not exceed 250 words.

11. (a) Explain requirements of mobile communication.

Or

- (b) Explain visiting location register.

12. (a) Explain personal handy phone system.

Or

- (b) Explain channel assignment methods.

13. (a) Explain satellite system for mobility.

Or

- (b) Explain requirements of global mobile communication.

14. (a) Explain co-channel interference omni directional radiation.

Or

- (b) Explain security arrangement in CDMA.

15. (a) Explain local multipoint distribution service.

Or

- (b) Explain the vision of 4G.

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 base station with neat diagram.

Or

- (b) Explain cellular mobile communication switching.

17. (a) Explain generations of wireless networks.

Or

- (b) Explain GSM Architecture.

18. (a) Explain architecture of CDPD.

Or

- (b) Explain satellite classification.

19. (a) Explain measurement of signal to noise and distortion ratio.

Or

- (b) Explain the working of mobile IP.

20. (a) Explain any two ad hoc networks.

Or

- (b) Explain bluetooth technology.
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