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Reg. No. :

Code No. : 10261 E Sub. Code : SECA 6 C/
AECA 63

B.A. (CBCS) DEGREE EXAMINATION, APRIL 2023.

Sixth Semester

Computer Application

Major Elective — MOBILE COMMUNICATION

(For those who joined in July 2017-2020)

Time : Three hours Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Name the forum defines a framework for the various standards and specifications needed for context / location aware applications.
- (a) API (b) PAM
(c) DECT (d) PKCS

2. _____ can be defined as a computing environment of physical mobility.
- (a) Mobile Communication
(b) Mobile Computing
(c) Wireless Communication
(d) Wireless Computing.
3. _____ is a measure to check the output of the demodulator in the receiver.
- (a) Word error indicator
(b) Quality indicator
(c) Received signal strength indicator
(d) None
4. Every mobile equipment in the world has a unique identifier. This identifier is called
- (a) IMEI (b) IMSI
(c) MCC (d) MNC
5. _____ uses shared mobile data service.
- (a) CDPD (b) GMSK
(c) FDMA (d) GPRS

6. _____ satellites are used for cellular mobile communications.
- (a) GEO (b) CEO
(c) LEO (d) MEO
7. When the mobile unit is near the base station the signal strength will be quite high due to less
- (a) Distraction (b) Allenuation
(c) Cracker (d) Threater
8. An algorithm to generate cipher key which is dynamic in nature for every cell originated by a particular user.
- (a) A1 (b) A3
(c) A5 (d) A8
9. Bluetooth technology allows users to make _____ wireless connections between devices.
- (a) fixed (b) dynamic
(c) flexible (d) Ad-hoc
10. The frequency of broadband WLL is around
- (a) 28KHz (b) 28MHz
(c) 28Hz (d) 28NHz

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Write the properties of wireless medium.
- Or
- (b) Discuss about HLR.
12. (a) Discuss the generation of wireless networks.
- Or
- (b) Write the types of cell splitting.
13. (a) Discuss about Global User Number.
- Or
- (b) Write about shared mobile data.
14. (a) Write about wireless threads.
- Or
- (b) Discuss about fading.

15. (a) Write the advantages of micro cellular.

Or

(b) What is 4G Mobile system converge? Discuss.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Explain about EIR with its diagram.

Or

(b) Write the need of cellular mobile communication with architecture.

17. (a) Enumerate about GSM with its architecture.

Or

(b) What are the hand off techniques? Discuss it.

18. (a) What is CDPD? Discuss it.

Or

(b) Write the types of Satellite classification. Discuss it.

19. (a) What is SINAD? Explain it.

Or

(b) How Mobile IP working with the communication devices?

20. (a) What is Adhoc Network? Discuss it.

Or

(b) Explain the types of intelligent cells.
