

(6 pages)

Reg. No. :

Code No. : 8451

Sub. Code : HCSM 33

M.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2016.

Third Semester

Computer Science

MOBILE COMPUTING

(For those who joined in July 2012-2015)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. The _____ provides the backbone networking for distant calls.
- (a) Satellite communication
 - (b) PSTN
 - (c) Both (a) and (b)
 - (d) None

2. HLR stands for _____.
- (a) Home Location Register
 - (b) High Location Register
 - (c) Heavy Location Register
 - (d) None of the above
3. The basic GSM is based on _____ traffic channels.
- (a) Connection oriented
 - (b) Connection less
 - (c) Packet Switching
 - (d) None
4. Why is a digital network preferred over an analog one?
- (a) It is newer
 - (b) It is smaller
 - (c) It has higher capacity for the same bandwidth
 - (d) It has lower power consumption
5. Little LEO operate _____.
- (a) Under 1 GHz
 - (b) 1 to 3 GHz
 - (c) 5 GHz
 - (d) None

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6. _____ interference is cross talk from two different radio transmitters using the same frequency.

- (a) Electromagnetic
- (b) Co-channel
- (c) Adjacent -channel
- (d) None

7. In wireless adhoc network _____.

- (a) access point is not required
- (b) access point is must
- (c) nodes are not required
- (d) None

8. System WLL is based on _____.

- (a) cellular
- (b) satellite
- (c) microcellular
- (d) all the above

9. Java is _____ language.

- (a) structured
- (b) object oriented
- (c) procedural
- (d) none of the above

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10. Say True or False

"Android is a mobile operations system developed by Google".

- (a) True
- (b) False

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Draw the system diagram of a telephone network.

Or

(b) What are the different types of control functions available in telephone systems?

12. (a) List out and explain the types of Handoff.

Or

(b) Explain the architecture of CDPD system.

13. (a) What is system configuration in global mobile communication?

Or

(b) Explain co-channel interference reduction factor and adjacent channel interference.

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[P.T.O.]



14. (a) Write short note on 4G mobile communication systems.

Or

- (b) Write short note on mobile internet.

15. (a) Explain about Java card.

Or

- (b) What is the role of XML in mobile app development.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) What are the advantages of digital communication system.

Or

- (b) What is the need and requirement of mobile communication? Explain history of mobile communication in detail.

17. (a) Write short note on mobile communication standards.

Or

- (b) Give a brief note on cordless mobile communication system.

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18. (a) Write short note on satellites in mobile communication.

Or

- (b) What are the interferences in cellular mobile communication? Explain Directional Antennas for co-channel interference reduction.

19. (a) Explain wireless network security in detail.

Or

- (b) Write short note on WCDMA technology and fibre optic microcellular mobile communication.

20. (a) What are the difference between android and symbian?

Or

- (b) Write short note on Java2 micro edition.
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