

(6 pages)

Reg. No. : .....

Code No. : 6428

Sub. Code : HCSM 33

M.Sc.(CBCS) DEGREE EXAMINATION,  
NOVEMBER 2013.

Third Semester

Computer Science

MOBILE COMPUTING

(For those who joined in July 2012 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. The variation of signal strength due to distance factor is called \_\_\_\_\_.  
(a) shadow fading      (b) thin shadow  
(c) path fading      (d) none.
2. \_\_\_\_\_ is the heart of the cellular mobile communication system  
(a) MSC      (b) BSC  
(c) MTSO      (d) Antenna.

3. The \_\_\_\_\_ circuits helps in maximum transfer of power to the transmission lines  
(a) Equalizing      (b) Matching  
(c) Multichannel      (d) Transistor.
4. The cordless telephone system used in \_\_\_\_\_.  
(a) stadium      (b) railway station  
(c) home      (d) airport.
5. The \_\_\_\_\_ scheme increase the spectrum efficiency  
(a) cochannels  
(b) frequency reuse  
(c) interference  
(d) transmitted power.
6. The constellation of 48 Leo satellite is called \_\_\_\_\_.  
(a) global star      (b) local star  
(c) geo star      (d) none.
7. Basic radio scanners are used to tap information from \_\_\_\_\_.  
(a) Corresponded node  
(b) Network  
(c) SIM  
(d) Wireless channels.

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8. UHF stands for —————  
 (a) Ultra High Frequency  
 (b) Unique High Frequency  
 (c) Ultra Higher Factor  
 (d) None.
9. A ————— language is for presentation of the marked textual content  
 (a) XML (b) Markup  
 (c) SGML (d) JAVA.
10. A ————— is an application process (or) a process unit which scheduled by the OS  
 (a) thread (b) process  
 (c) interrupt (d) task.

PART B — (5 × 5 = 25 marks)

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

11. (a) What are the requirements of mobile communication?  
 Or  
 (b) Explain about transmission links and its advantages.

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12. (a) Explain briefly about hand off detection and assignment techniques.

Or

- (b) Describe the control channels is frequency management.

13. (a) Explain the measurements of co-channel interference.

Or

- (b) Write short note on Satellite change over from one to another.

14. (a) Write short note on bluetooth technology.

Or

- (b) Briefly explain the security arrangements of CDMA.

15. (a) Explain the highlights of symbian OS.

Or

- (b) What are the characteristics features of Java?

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PART C — (5 × 8 = 40 marks)

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

16. (a) What are the advantages of digital information?

Or

- (b) What are the properties of wireless medium?

17. (a) Explain cordless telephony standards.

Or

- (b) Write short note on the working principle of CDPDS system.

18. (a) Bring out the difference between propagation attenuation and fading.

Or

- (b) Explain the important parameters of mobile communication system.

19. (a) Discuss about the wireless local loop architecture.

Or

- (b) Describe the working of mobile IP.

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20. (a) Explain the Android OS in mobile phones.

Or

- (b) Write short note on JAVA2 micro edition on mobile application.
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