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**B. E. (Seventh Semester) Examination,
Nov.-Dec. 2019**

(New Scheme)

(CSE Engg. Branch)

MOBILE COMPUTING & APPLICATION

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

*Note : Attempt all questions. Part (a) is compulsory
and solve any two from (b), (c) & (d).*

Unit-I

1. (a) Explain what do you mean by cell: 2

(b) What do you mean by spread spectrum techniques?
Explain FHSS in detail. 7

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PTO

- (c) Compare TDMA, CDMA & FDMA. 7
- (d) What do you mean by medium access control? State advantages of CDMA over other NAC techniques. 7

Unit-II

- 2. (a) Define physical and logical channel in GSM. 2
- (b) Explain GSM architecture in detail. 7
- (c) What is new data services in GSM? Explain DECT in detail. 7
- (d) With a neat sketch, explain about working principle of PACS. http://www.csvtuonline.com 7

Unit-III

- 3. (a) What is hidden node and expose node problem in WLAN? 2
- (b) Explain IEEE 802.11 WLAN architecture and protocol stack. 7
- (c) Describe bluetooth architecture and his protocol stack. 7
- (d) Explain wireless broadband (WiMAX). 7

Unit-IV

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4. (a) Give requirement of mobile IP. 2
- (b) Explain fast transmit/fast recovery and transmission timeout freezing with proper example. 7
- (c) Explain about DHCP in detail. 7
- (d) Explain snooping TCP in detail. 7

Unit-V

5. (a) What is WAP Gateway? 2
- (b) Compare WCDMA and CDMA 2000, 3-G technologies. 7
- (c) Write about operating system for 3G Handset. 7
- (d) Explain the impact on manufacture and operator technologies in third generation networks. 7