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**B. E. (Seventh Semester) Examination,
April-May 2021**

(New Scheme)

(CSE Engg. Branch)

MOBILE COMPUTING & APPLICATION

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : Attempt any two parts from (b), (c) & (d) from each unit. All questions carry equal marks and part (a) from each unit is compulsory having 2 marks.

Unit-I

1. (a) Define Cell throughout. 2
- (b) What is cell splitting? Explain the concept of Frequency reuse. 7

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- (c) Discuss the types of handoff with their characteristics. 7
- (d) What is fixed channel assignment and non fixed channel assignment? 7

Unit-II

- 2. (a) Briefly describe about "AMPS". 2
- (b) Explain PACS system architecture in detail. 7
- (c) Explain DECT with system architecture. Write the advantage of DECT over GSM. 7
- (d) Write short notes on : $3\frac{1}{2}+3\frac{1}{2}=7$
 - (i) GSM Channel
 - (ii) Channel coding for control channels

Unit-III

- 3. (a) What is Kill? 2
- (b) Explain Bluetooth architecture and its protocol stack. 7
- (c) Discuss RFID, Java Card and WLL. 7
- (d) Write short notes on : $3\frac{1}{2}+3\frac{1}{2}=7$
 - (i) Wireless LAN
 - (ii) HIPERLAN

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Unit-IV

- 4. (a) What is snooping TCP? 2
- (b) Explain mobile network layer in detail. 7
- (c) Discuss indirect TCP and Mobile TCP. 7
- (d) Write short notes on : $3\frac{1}{2}+3\frac{1}{2}=7$
 - (i) Adhoc networks
 - (ii) DHCP

Unit-V

- 5. (a) Define WAP gateway. 2
- (b) Compare W-CDMA and CDMA 2000. 7
- (c) Discuss quality services in 3G wireless operating system for 3G handset. 7
- (d) Write short notes on security features of WAP. 7