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B. E. (Sixth Semester) Examination 2020

(Old Scheme)

(IT Branch)

CELLULAR & MOBILE COMPUTING

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : Attempt all questions. Part (a) of each question is compulsory and carries 2 marks. Attempt any two parts from (b), (c) and (d) which carry 7 marks each.

Unit-I

1. (a) What is Wireless Mobile Network? 2
- (b) What are the advantages and disadvantages of cellular system? 7

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- (c) What is Multiplexing? Explain different types of Multiplexing. 7
- (d) Explain SDMA and FDMA. 7

Unit-II

- 2. (a) What is GSM? 2
- (b) Explain Functional Architecture of GSM system. 7
- (c) What is TETRA? Explain its frame structure. 7
- (d) Explain satellite system with its application. 7

Unit-III

- 3. (a) What is Ad-hoc Network? 2
- (b) What are the advantages and disadvantages of WLAN? 7
- (c) Explain the system architecture of IEEE 802.11. 7
- (d) Explain generic WATN reference model. 7

Unit-IV

- 4. (a) What is Tunnelling? 2

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- (b) Explain DHCP. 7
- (c) Explain Traditional TCP. 7
- (d) What do you mean by Transaction-Oriented TCP? Explain with suitable diagram. 7

Unit-V

- 5. (a) Explain File System. 2
- (b) Explain architecture of wireless datagram protocol. 7
- (c) What are the different wireless telephony application? 7
- (d) Explain : 7
 - (i) WWW
 - (ii) HTTP