

Printed Pages – 3

Roll No. :

333832(33)

APR-MAY 2022

B. E. (Eighth Semester) Examination, 2020-

(New Scheme)

(IT Engg. Branch)

MOBILE COMPUTING and APPLICATION

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : Part (a) of each question is compulsory and carries 2 marks. Attempt any two parts from (b), (c) and (d) and carry 7 marks each. Draw diagram wherever necessary.

Unit-I

1. (a) What is Frequency Reuse? 2
- (b) Define cellular system and what are the its advantages and disadvantages. 7

333832(33)

PTO

[2]

- (c) What is Multiplexing? Explain specialized MAC in wireless network. 7
- (d) Compare TDMA, CDMA and FDMA. 7

Unit-II

2. (a) What is SIM and PUK? 2
- (b) Explain GSM Architecture in details. 7
- (c) What is new data services in GSM? Explain DECT in detail. 7
- (d) What are the functions of Radio Network Controller in UTRA network? 7

Unit-III

3. (a) What is infrared and radio transmission? 2
- (b) Write short notes on : 7
- (i) RFID
 - (ii) Java card
 - (iii) WLL
 - (iv) WIMAX

[3]

- (c) Explain bluetooth architecture and its protocol stack. 7
- (d) Describe IEEE 802.11 architecture in detail. 7

Unit-IV

4. (a) What is slow start? 2
- (b) Explain 'SNOOPING TCP' with its advantages and disadvantages. 7
- (c) Explain with suitable diagram, client initialization via DHCP. 7
- (d) What is mobile IP? Explain IP packet delivery to and from the mobile node. 7

Unit-V

5. (a) Define WAP. 2
- (b) Discuss the improvements on core network and quality of services in 3G system. 7
- (c) What is impact on manufacture and operator technology? Describe in detail. 7
- (d) How does wireless application protocol work. 7