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**B. E. (Eighth Semester) Examination,
Nov.-Dec. 2021**

(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.

Unit-I

1. (a) What is soft and hard hand off? 2
- (b) Compare TDMA, FDMA and CDMA. 7

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- (c) What is channel assignment alongwith their types. 7
- (d) What is spread spectrum techniques? Explain FHSS in detail. 7

Unit-II

- 2. (a) Describe physical and logical channel GSM. 2
- (b) Explain GSM architecture. 7
- (c) What is signal propagation? Explain various affects of signal propagation. 7
- (d) What is the basic reasons of handover in GSM? What types of handover can occur in GSM? 7

Unit-III

- 3. (a) What is radio transmission. 2
- (b) Describe IEEE 802.11 architecture in detail. 7
- (c) Explain CSMA/CA with RTS/CTS mechanism. 7
- (d) Explain Wimax with Java Card. 7

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Unit-IV

- 4. (a) What is home agent and foreign agent? 2
- (b) Explain dynamic host configuration protocol. 7
- (c) Explain Snooping TCP in detail. 7
- (d) What is mobile IP? Explain IP packet delivery to and from the mobile node. 7

Unit-V

- 5. (a) What is WAP gateway. 2
- (b) Describe WAP architecture with their components and interfaces in detail. 7
- (c) Explain the impact on manufacture and operator technology in 3G network. 7
- (d) Explain WAP user agent profile. How casching is done in user agent profile? 7