END TERM EXAMINATION

SIXTH SEMESTER [BCA] JULY 2023

Paper Code: BCA-304	Subject: Mobile Computing
Time: 3 Hours	Maximum Marks: 75

Note: Attempt five questions in all including Q.No. 1 which is compulsory. Select one question from each unit.

Q1   Attempts all parts of the following: **(5x5=25)**
- a) What are the main obstacles that occurred in mobile communications?
- b) Briefly describe DAMA, PRMA, and MACA.
- c) Explain in detail about GSM services.
- d) Explain the challenges and pitfalls in the making of WAP.
- e) Using Current Web Technologies for Wireless Application.

UNIT-I

Q2
- a) Discuss the multipath propagation during wireless transmission. **(5)**
- b) What is modulation? Explain with Amplitude Shift Keying, Frequency Shift Keying and Phase Shift Keying. **(7.5)**

Q3
- a) What is additional signal propagation effects? **(5)**
- b) Define Direct Sequence Spread Spectrum and Frequenc Hopping Spread Spectrum. **(7.5)**

UNIT-II

Q4   Explain the following:
- i) What is Pure ALOHA and Slotted ALOHA? **(4.5)**
- ii) Difference between Hidden and Exposed. **(4)**
- iii) Terminal Near and Far Terminals. **(4)**

Q5
- a) Briefly describe multi path propagation mechanism in mobile Communication What are its effects? **(5)**
- b) Explain the term interference in the space, time, frequency and code domain. What are the counter measures in FDMA and CDMA systems. **(7.5)**

UNIT-III

Q6
- a) What services for the mobile internet? Explain its business opportunities. **(6.5)**
- b) Explain the following : (i) <anchor> (ii) <option> (iii) <head>. **(6)**

Q7
- a) Explain the WBMP Image Format with suitable example. **(6.5)**
- b) What is the difference between Template and Card? **(6)**

UNIT-IV

Q8   How many types of operators used in WML Script? Explain all with suitable example. **(12.5)**

Q9
- a) Discuss the elementary knowledge of libraries using String, WML Browser & Dialogs. **(6.5)**
- b) What is WML script program? Explain access pragma vs meta pragma. **(6)**

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