



MARWADI UNIVERSITY

Faculty of Engineering and Technology

(INFORMATION AND COMMUNICATION TECHNOLOGY)

(B.Tech)

SEM: 7

MID-SEM. EXAM: I

September : 2024

Enroll. No. \_\_\_\_\_

Subject: - (Mobile and Pervasive Computing) (01CT0716)

Date:- 19/09/2024

Total Marks:-30

Time: - 7:45:00 am to 9:00 am

**Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

**Question: 1.** Do as directed

[6]

1. What technology does Bluetooth use to avoid interference?
2. Which frequency bands are commonly used by Wi-Fi?
3. What is an ad hoc network?
4. What is the role of an access point in an infrastructure network?
5. Which protocol is commonly used for mobility at the network layer?
6. What is coherence bandwidth?

**Question: 2.**

[12]

- (a) What is frequency reuse? Explain with proper diagram.
  - (b) Define macro mobility and micro mobility with examples.
- OR**
- (b) Differentiate the WiMAX and Wi-Fi.

[6]

[6]

[6]

**Question: 3.**

[12]

- (a) Explain channel assignment strategies in details
  - (b) Write a short note on WSN network topologies
- OR**
- (a) What is small scale fading and large-scale path loss? Sketch the explain with an example.
  - (b) Explain how Frequency Division Multiple Access (FDMA) is applied in GSM.

[8]

[4]

[8]

[4]

*---Best of Luck---*