	According to the second	-
Enrolment No		
PART ALLES AND TANK		LLL

S. (PCAOSEII)

MCA 5th Semester Mid Term Examination 2023 Wireless Communication Networks

PCAOSEII

Full Marks 20

Time: 1 hour

The figure in the margin indicates full marks for the question]

All Questions are Compulsory.

PART - A

 $(4 \times 1 = 4)$

- 1. Write the characteristics of wireless medium.
- List all the multiple access techniques for wireless communication.
- List the types of analog and digital modulation methods.
- 4. What is doppler effect?

PART - B

 $(4 \times 2 = 8)$

- 5. Differentiate between Amplitude Modulation, Frequency Modulation and Pulse Modulation.
- 6. Compare Amplitude Shift Keying, Frequency Shift Keying and phase Shift Keying.
- 7. What is the effect of multipath in digital radio communication and how it can be solved?
- 8. Explain the following wireless channel modelling:
 - i. Path loss
 - Shadow fading

PART - C

 $(2 \times 4 = 8)$

- 9. Compare FDMA, TDMA, CDMA and SDMA.
- 10. Explain the following radio wave propagation in wireless communication along with their advantages and disadvantages:
 - Ground wave propagation
 - ii. Sky wave propagation
 - iii. Line of sight propagation
 - iv. Tropospheric propagation.

Milan