	Utech
Name :	
Roll No.:	To Spanie (1) Exemple for Stall Explored
Invigilator's Signature :	

# CS/M.Tech (ECE)/SEM-2/MEC-203/2010 2010

#### **MOBILE COMMUNICATION — II**

Time Allotted: 3 Hours Full Marks: 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

#### **GROUP - A**

#### ( Multiple Choice Type Questions )

- 1. Choose the correct alternatives for the following :  $4 \times 2\frac{1}{2} = 10$ 
  - i) The uplink and downlink Frequency Bands for GSM are respectively
    - a) 890-915 MHz and 935-960 MHz
    - b) 890-915 GHz and 935-960 GHz
    - c) 935-960 MHz and 890-915 MHz
    - d) 935-960 GHz and 890-915 GHz.
  - ii) Maximum power in GSM Mobile Station belongs to class
    - a) 1
    - b) 2
    - c) 3
    - d) 4.

30043 (M.TECH)

[ Turn over

## CS/M.Tech (ECE)/SEM-2/MEC-203/2010

- iii) If a satellite is in orbit of a 1350 km away from the earth, it is logically a
  - a) GEO
  - b) MEO
  - c) LEO
  - d) none of these.
- iv) UPTN is proposed to be of
  - a) 12 digits
  - b) 13 digits
  - c) 14 digits
  - d) 15 digits.

#### **GROUP - B**

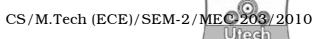
### (Short Answer Type Questions)

Answer any *four* of the following.

 $4 \times 5 = 20$ 

- 2. Calculate the maximum possible number of channels under GSM standard.
- 3. Enumerate the reasons for choosing GMSK in GSM.
- 4. Give an account of SIM card management.
- 5. Give an account of Mobile IP.
- 6. How does W-CDMA differ from CDMA?

30043 (M.TECH)



#### **GROUP - C**

## (Long Answer Type Questions)

Answer any two of the following.

 $2 \times 20 = 40$ 

- 7. Give a comparative account of Global star with Iridium.
- 8. State the objectives of UMTS. Illustrate its development phase and technical aspects in detail.
- 9. Give a full account of security issues in mobile communication.

30043 (M.TECH)