

[5461]-600-A

B.E. (Computer Engineering)

MOBILE COMMUNICATION

(2015 Pattern) (Semester - I) (Elective - II)

: 2½ Hours]

Directions to the candidates:

- (1) All questions are compulsory.
- (2) Neat diagrams must be drawn wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume Suitable data if necessary.

[Max. Marks : 70

- a) What frequencies reuse and give its frequency reuse factor. [6]
- b) Explain Cell Splitting give its feature. [4]

OR

- a) Explain PCS Architecture in detail. [6]
- b) Give detail Fading in Mobile Environment. [4]

- a) Write short note on specialized MAC. [4]
- b) Explain GMSK Modulation and give it type. [6]

OR

- a) Explain Mobile Station and SIM. [6]
- b) Short Note on HLR and VLR. [4]

- a) GSM Architecture in detail. [6]
- b) Explain GSM Identifiers. [6]
- c) Short note on GSM bursts. [6]

OR

P.T.O.

DEC-2018

- Q6) a) Explain the block diagram of GPRS. [6]
- b) Describe in detail Logical Channel for GSM. [6]
- c) Write short note on GSM Frame. [6]

- Q7) a) Explain Block diagram for UMTS in detail. [6]
- b) Write short note on 3 GPP2 family CDMA 2000. [6]
- c) Give detail HSPA. [4]

OR

- Q8) a) What are the three main CDMA 2000 std and explain all three. [6]
- b) Explain LTE in 4G. [6]
- c) Give detail HSUPA [4]

- Q9) a) Draw a diagram for Millimeter wave and explain it. [8]
- b) Describe in detail Virtual reality and Augmented Reality. [8]

OR

- Q10) a) Explain LTE based MULTIFIRE. [8]
- b) Explain in detail URLLC. [8]

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