

Total No. of Questions :8]

SEAT No. :

**P3966**

**[5561]-662**

[Total No. of Pages :2

**B.E. (E & TC)**

**MOBILE COMMUNICATION**

**(2015 Course) (404189) (Semester-II)**

*Time : 2½ Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) Answer any Q.No.1 or 2, Q.No.3 or 4, Q.No.5 or 6, Q.No.7 or 8,
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data if necessary.

- Q1)** a) Compare Circuit switching, Message switching and Packet switching techniques. [10]
- b) Describe the working operation of Electronic switching system with diagram. [10]

OR

- Q2)** a) Explain Impulse response model of multipath channel. [10]
- b) With neat diagram, describe co-channel and adjacent channel interference in GSM. [10]
- Q3)** a) Explain with neat diagram various interfaces used in GSM. [8]
- b) List out various radio transmission parameters in GSM system. [8]

OR

- Q4)** a) With neat diagram describe GSM system Architecture. [8]
- b) Explain in detail the significance of GSM frame structure. [8]
- Q5)** a) Explain channel concept in GSM system and classify them. [9]
- b) Explain with neat diagram Intra-BSC and Inter-BSC hand over in GSM. [9]

OR

**P.T.O.**

**Q6) a)** With neat block diagram explain architecture of SMS for point to point service. [9]

b) Explain HSCSD Architecture for enhancement of GSM circuit switched data transmission. [9]

**Q7) a)** Compare 1G to 5G mobile generation. [8]

b) Draw LTE frame structure and list out LTE design parameters. [8]

OR

**Q8) a)** List out and explain in brief Disruptive technologies for 5G. [8]

b) With the help of Layers, explain 5G concept in wireless technology. [8]

