

QP Code : 15398**[Revised Course]****3 Hours****[Total Marks - 100]**

- NB:**
- 1) Question no. 1 is compulsory
 - 2) Attempt **any four** questions out of the remaining six questions.
 - 3) Figures to the right indicate full marks.
 - 4) Assume suitable **data** wherever necessary.

- Q 1** a) Explain HSCSD network. [20]
b) Explain what Doppler shift is.
c) Explain authentication in GSM.
d) Explain path loss model.
- Q 2** a) Discuss in detail ^{GSM} GMS logical channels. [10]
b) How system coverage and capacity can be improved in GSM ?
- Q 3** a) Discuss IMT 2000 system. [10]
b) Explain IS-95 reverse traffic channel. [10]
- Q 4** a) Explain GSM services and features. [10]
b) Elaborate on forward W-CDMA channel. [10]
- Q 5** a) Explain signal processing in GSM [10]
b) What are the technical differences in W-CDMA and CDMA 2000. [10]
- Q 6** a) Explain GSM system architecture. [10]
b) Explain in detail working of RAKE receiver. [10]
- Q 7** Write short notes (any two) [20]
a) Small scale fading.
b) Frequency reuse.
c) GPRS technology.

LM-Con. 9491-14.

Correction
Attached