

B.Tech. SEM -VII Electronics 2014 Course (CBCS) : SUMMER - 2019
SUBJECT : ELECTIVE – I: MOBILE & BROADBAND COMMUNICATION

Day : Wednesday

Date : 15/05/2019

S-2019-2823

Time : 02.30 PM TO 05.30 PM

Max. Marks : 60

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat and labeled diagram **WHEREVER** necessary.
 - 4) Answers to both the sections should be written in **SAME** answer book.
 - 5) Assume suitable data if necessary.
-

Q.1 Describe classical Aloha and Slotted Aloha multiple access in TDMA. [10]

OR

Q.1 a) Describe CDMA and TDMA. [06]

b) Draw and explain cellular system architecture. [04]

Q.2 Describe the Forward link channel of IS-95. [10]

OR

Q.2 a) Explain GSM Protocol Model with diagram. [06]

b) Describe Inter-MSC handoff. [04]

Q.3 Describe mobile IP architecture and functional component. [10]

OR

Q.3 Explain WAP 2.0 architecture with diagram. [10]

Q.4 Draw and explain 'ISDN Protocol Architecture'. [10]

OR

Q.4 Describe principle and architecture of ISDN. [10]

Q.5 a) Write note on B-ISDN protocols. [06]

b) Describe Messaging and Retrieval in B-ISDN. [04]

OR

Q.5 Describe Signal Hierarchy and System Hierarchy in detail. [10]

Q.6 Explain ATM Reference Model in detail. [10]

OR

Q.6 Describe ATM Cell and Header format in detail. [10]

* * * *