

B.Tech. SEM -VII Electronics 2014 Course (CBCS) : WINTER - 2018
SUBJECT : ELECTIVE – I: MOBILE & BROADBAND COMMUNICATION

Day : Monday
Date : 03/12/2018

W-2018-2558

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 **SEPARATE** answer book.
 - 5) Assume suitable data if necessary.
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Q.1 Explain operation and planning in cellular system. **[10]**

OR

Q.1 a) Compare FDMA and TDMA. **[06]**

b) Write advantages of cellular systems. **[04]**

Q.2 a) Explain soft handoff process in the CDMA System. **[06]**

b) Write characteristics of the initial GSM standards. **[04]**

OR

Q.2 Describe Orthogonal Frequency Division Multiplexing (OFDM) also write advantages and disadvantages of OFDM. **[10]**

Q.3 Describe snooping TCP and mobile TCP. **[10]**

OR

Q.3 Describe 'Wireless Datagram Protocol' and 'Wireless Session Protocol'. **[10]**

Q.4 Write principles of ISDN. Draw and explain architecture of ISDN. **[10]**

OR

Q.4 Write note on: **[10]**

- a)** ISDN connections **b)** ISDN Protocol

Q.5 Explain user plane and control plane. **[10]**

OR

Q.5 Describe SONET System Hierarchy. Also write SONET requirements. **[10]**

Q.6 Write note on : **[10]**

- a)** Generic flow control.
b) Header error control.

OR

Q.6 Describe AAL Services and protocol. **[10]**

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