

**B.TECH SEM – IV (2007 COURSE) (INF. TECH.) : SUMMER -
2018**

SUBJECT: COMPUTER COMMUNICATIONS AND NETWORKS

Day: **Tuesday**
Date: **05/06/2018**

S-2018-2626

Time: **10.00 AM TO 01.00 PM**
Max. Marks: 80

N.B.:

- 1) **Q. No. 1 and Q. no. 5 are COMPULSORY.** Out of remaining attempt **ANY TWO** questions from each section
- 2) Figures to the **RIGHT** indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SEPARATE** answer book.
- 4) Use of non programmable **calculator** is allowed.
- 5) Assume suitable data if **necessary**.
- 6) Draw neat diagrams wherever necessary.

SECTION-I

- Q.1** a) Differentiate between digital signals and analog signals. (05)
b) What is binary signal? Explain it in detail. (05)
c) Explain wave division multiplexing. (04)
- Q.2** a) Describe channel capacity in detail. (07)
b) Compare simple and half duplex. (06)
- Q.3** a) Discuss amplitude modulation power distribution. (07)
b) What is digital modulation? Explain digital continuous wave. (06)
- Q.4** a) Compare LCR, VCR and CRC. (07)
b) What is Error detection? Explain Correction in detail. (06)

SECTION-II

- Q.5** a) Discuss satellite communication. (05)
b) Describe RS-232 in detail. (05)
c) What is Packet switching network? (04)
- Q.6** a) What is guided transmission media? Explain Co-axial cable in detail. (07)
b) Describe Geostationary satellite in detail. (06)
- Q.7** a) What is need for computer network? Write merits and demerits of network. (07)
b) Describe network architecture OSI Model. (06)
- Q.8** a) Explain networking types in detail. (07)
b) Discuss different switching techniques in detail. (06)