

[Time: Three Hours]

[Max. Marks:80]

"Please check whether you have got the right question paper."

i) Q. No.1 and Q.No.6 are compulsory.

ii) Attempt any two questions from, Q.No2 to Q. No5 and Q.No.7,Q.No.10 of each section.

## SECTION-A

- Q.1 Attempt any five:
- Define code & Uni code. 10
  - Explain Mesh Topology.
  - Define Check sum.
  - Define shannon capacity on noisy channel.
  - Define single error.
  - Explain check sum for five 4 bits numbers that we want to send destination. The numbers are (7,11,12,0,6)
  - Calculate a bit rate of PCM system to transmit a voice channel .Assume no of bit per word to be 8.
  - Define NRZ.
- Q.2
- Give connection types & topoloyics of computer Networks . 08
  - Explain Line coding technique. 07
- Q.3
- Explain Analog to Digital conversion with any one method . 08
  - Differentiat between CDMA,WDMA&TDMA. 07
- Q.4
- Compare Connection oriented & connection less services in detail . 08
  - Explain protocol & Standard in details. 07
- Q.5
- Explain CRC encoder & decoder with suitable diagram. 08
  - Explain packet switching & Circuit switching . 07
- SECTION-B
- Q.6 Attempt any five :
- Define classful addressings.
  - Give blue tooth applications .
  - Define BSS.
  - Give working of switch.
  - Explain Routing table inshort.
  - Find the class of each address.
    - 11000001 10000011 00011011 11111111.
    - 192.168.100.100.
  - A pure ALOHA Network transmit 200.bit frme on shared channel of 200 kbps. What is the through put is system produces 1000 frame per second.
  - Define ASK & FSK.
- Q.7
- Give details abouts ALOHA. 08
  - What is mean by standard ethernet? Explain with categoress . 07
- Q.8
- Explain Architectures of IEEE 802.11 standard. 08
  - Explain logical Addressing. 07
- Q.9
- Explain MAC sublayer in std Ethernet 08
  - Explain cellular Generations. 07
- Q.10
- Differenfiial between IPV4 &IPV6. 08
  - Give details about Channelization. 07