

IV B.Tech. II Semester Regular Examinations, April/May -2005
TELEMATICS
(Information Technology)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. The strowger switch contains 10 rows each with 10 contacts, Show by means of a sketch the switch position for the number 84 .
2. Explain the principle of cross bar switch and its features in telephone system.
3. What is User View of USENET ? How USENET Is Implemented.
4. What are the standards of Mbone- Multicast Backbone?
5. Explain in detail the user network interface configurations employed in ISDN with neat block schematic diagrams. Compare their merits and demerits.
6. (a) Explain various access configurations for ISDN user - network interfaces based on functional groupings and reference points?
(b) Explain ISDN Address Structure?
7. Explain in detail about Primary User Network Interface in ISDN?
8. Explain the service capabilities of ISDN?

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1. Explain how communication is done in elemental phone system?
2. Compare single stage switching with multi stage switching.
Derive an equation for multi stage switching.
3. Give the functions of the following
 - (a) Email gateways
 - (b) Final Delivery
 - (c) Email Privacy
4. What is the hardware architecture of simple set-top box?
5. Write short notes on the following with reference to ISDN :
 - (a) ISDN channel Structure
 - (b) ISDN user-network interface
 - (c) PSPDN (Packet Switched public data network).
6. Explain the following with reference to ISDN physical layer:
 - (a) Framing and multiplexing.
 - (b) Physical connector.
 - (c) Mutlidrop configuration.
7.
 - (a) Explain about U - Interface in ISDN?
 - (b) Discuss the primary interface at 1.544 Mbps in ISDN?
8. Write short notes on
 - (a) Basic services in ISDN.
 - (b) Tele services in ISDN.
 - (c) Supplementary services in ISDN.

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1. What is a subscriber loop? What are the limitations of automatic dialing system?
2. Compare single stage switching with multi stage switching. Draw the 3-stage switching network.
3. What is the need of E-mail privacy? How does PGP (Pretty Good Privacy) enhance the privacy?
4. Distinguish between the Source encoding and entropy encoding? Give the various methods for source encoding?
5. Explain the following with reference to ISDN :
 - (a) Packet Switching
 - (b) ISDN services
 - (c) ISDN channel functions.
6. Explain the following with reference to ISDN physical layer:
 - (a) Framing and multiplexing.
 - (b) Physical connector.
 - (c) Mutlidrop configuration.
7. (a) Explain the exchange of I - frames, S-frames and U-frames in LAPD operation in ISDN?
(b) Explain LAPD frame structure in ISDN?
8. (a) Explain various possible packet-mode communication modes.
(b) What are the Q.931 messages used with the Global call reference and explain.

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1. In an exchange each station has two signals TALK and SIGNAL and there are N stations. Show that there are $N(N-1)/2$ switches and $N(N-1)/2$ interconnections.
2. Compare TSI with space switching .Draw the diagram for TSI?
3. What are the object oriented features of JAVA ? What is the need of polymorphism? Give the facilities offered by AWT: abstract Windowing tool kit?
4. Creativity is one of the prime requirement in multimedia project development explain?
5. Explain the following with reference to ISDN :
 - (a) Packet Switching
 - (b) ISDN services
 - (c) ISDN channel functions.
6.
 - (a) Write about the objectives of ISDN?
 - (b) Discuss the benefits and services provided by ISDN?
7. Explain I. 465 / V. 120 Frame Structure for circuit mode connections and also explain in detail the connection control for circuit mode connections in ISDN?
8.
 - (a) Describe any five ISDN Tele-sevices.
 - (b) Explain the number Identification ISDN service in detail.
