

Code No: 07A71701

R07

Set No. 2

IV B.Tech I Semester Examinations, MAY 2011
ASYNCHRONOUS TRANSFER MODE
Electronics And Telematics

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Discuss-ISDN Vs SONET. [16]
2. Compare and contrast passive optical networks using multiplexer/ demultiplexer and splitter/ combiner approaches. Use relevant diagrams. [16]
3. How is wireless network implemented in ATM. Explain it. [16]
4. In which kind of application AAL can be utilized and explain how. [16]
5. How do you manipulate the different fields in cell structure of ATM for different services. [16]
6. (a) What is horizontal stacking and explain the basic configuration of a multipath interconnection network?
(b) Write about Delta Networks. [8+8]
7. Write about ABR capacity allocation functions and the switch algorithms for congestion control and fair capacity allocation. [16]
8. Discuss the conceptual differences between ATM & TCP/IP. [16]

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Set No. 4

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ASYNCHRONOUS TRANSFER MODE
Electronics And Telematics

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Discuss the networking techniques of B-ISDN. [16]
2. How can an ATM ADAPTATION LAYER provide mapping with high layer PDVS-discuss. [16]
3. (a) What are the two main tasks for an ATM Switching or Cross-Connect node?
(b) Why is a switch fabric necessary?
(c) What is a switching element and give the general model of a switching element and explain each element? [4+5+7]
4. Explain ATM application programming Interface. [16]
5. Bring out the merits and demerits of ISDN over old telephone service. [16]
6. Write detailed notes on:
(a) Latency /Speed effects.
(b) Cell Delay variation by drawing time reassembly of CBR cells. [8+8]
7. With an example explain the arrangement of ATM network equipment. [16]
8. How do you resolve the priorities of different data over mixed network traffic and how they can be transmitted through. [16]

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Set No. 1

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ASYNCHRONOUS TRANSFER MODE
Electronics And Telematics

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Write short notes on:
 - (a) Virtual path and channel identifier.
 - (b) Payload type. [8+8]
2. Explain briefly about LAN Emulation. [16]
3. (a) Give the concept behind B-ISDN.
(b) What are the standards of B-ISDN channels? [8+8]
4. Explain the ERICA algorithm. [16]
5. What is SAR-PDU format for AAL type1 and discuss each field? [16]
6. Write notes on:
 - (a) Single stage networks
 - (b) Shuffle exchange
 - (c) Funnel type Network with relevant diagrams. [6+6+4]
7. Write in detail about BISDN local network topology and technology. [16]
8. What are the different mapping procedures present in SONET. Discuss clearly. [16]

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Set No. 3

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ASYNCHRONOUS TRANSFER MODE
Electronics And Telematics**

Time: 3 hours

Max Marks: 80

**Answer any FIVE Questions
All Questions carry equal marks**

1. Discuss STM Vs ATM in detail. [16]
2. (a) State the Qos parameters.
(b) What are the various factors that affect the Qos parameters. [8+8]
3. Give the cell structure of AAL1 sub layer and explain each field. [16]
4. Discuss the general aspects of the user-network SONET. [16]
5. How the cell header at the B-ISDN UNI and explain each field. [16]
6. Write detailed notes on:
 - (a) Network contribution to cell delay variation.
 - (b) Cell delay variation at the UNI with relevant diagram. [8+8]
7. (a) Describe the trunk network structure
(b) Present transmission characteristics and technology of BISDN local network. [8+8]
8. Discuss in detail the intelligent network aspects of BISDN. [16]
