

**GOVERNMENT ENGINEERING COLLEGE, DAHOD
(GUJARAT TECHNOLOGICAL UNIVERSITY)
COMPUTER ENGINEERING
B. E. SEMESTER: VIII**

SUBJECT : Advance Computer Networks (Department Elective-2)

SUBJECT CODE : 180704

TUTORIAL : 1

1. Write a short notes on:
 - a. Optical networking
 - b. SONET Network
 - c. DWDM
2. Explain ATM cell header format.
3. Explain time division multiplexing in ATM.
4. Explain function of VP and VCP switches in ATM.
5. Explain various layer of X.25 packet switching-network.

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TUTORIAL : 2

1. Explain different equipment used in X.25 and explain architecture of X.25.
2. Explain subnetting in detail.
3. Explain ARP and RARP protocols in detail.
4. Write a short notes on:
 - a. RIP (Routing information protocol)
 - b. OSPF (open shortest path first protocol)
 - c. BGP (Border Gateway Protocol)
5. Write a short notes on:
 - a. SAN (Storage area networks)
 - b. SNMP (Standard network management protocol).

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TUTORIAL : 3

1. What is Multimedia Over Internet ? Explain VOIP.
2. Explain Layer-2 switching method.
3. What is Traffic Engineering ? Give and Explain Traffic characteristics.
4. Explain Availability, Reliability and Maintainability of a network in detail for network management.
5. Explain Spanning Tree Control (STP).