

Bharati Vidyapeeth's College of Engineering for Women, Pune.

Electronics and TeleCommunication Department

Unit Test I B.E. Academic Year: 2010-2011

Subject: Telecommunication Network Management

Duration: 1 hour

Marks: 30

Solve any Two

1) A) Explain circuit switching, packet switching, virtual switching (8)

B) Explain Network function (7)

2) A) Draw and explain ATM reference model (6)

B) Explain ISDN protocol architecture. Explain reference points & functional grouping in ISDN (9)

3) A) Enumerates the advantages of frame relay over traditional packet switching & X.25. Explain frame relay protocol architecture in detail (7)

B) Draw and explain STS-1 frame format (8)

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Unit Test II B.E. Academic Year: 2010-2011

Subject: Telecommunication Network Management

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Solve any Two

1) Write a short note on

A) Digital Subscriber lines (8)

B) Cable modem (7)

2) A) What are the various types of routing methods (8)

B) Which are the parameters these are responsible for judging the quality of service in telecommunication network (7)

3) A) Explain flooding algorithm for routing packets (7)

B) Explain distance vector routing in detail (8)

UNIT TEST I

B.E (E4TC) DIV II

Date:- 15th Feb 2011

Sub:- TNM

Time:-

Max. Marks:- 30

- Q.1 a) Discuss major issues to be considered while designing communication network (08)
- b) Draw a neat diagram of hierarchical structure of PSTN & exactly label National tandem, regional tandem, local tandem, trunk n/w, local n/w, customer lines etc. (06)

OR

- Q.1 a) Draw the structure of Network Design Tool & explain each block in short. (08)
- b) Compare circuit switching & packet switching (7)

- Q.2 a) What DLCI represents in FR networks? Compare SVC & PVC. (8)
- b) Draw & explain STS-1 frame format (7)

OR

- Q.2 a) Draw BRI & PRI frame formats. (8)
- b) What are the advantages of cell networks? Define VPI & VCI in ATM. (7)

X

UNIT TEST II
BE (E4TC) DIV II

Total Marks: - 30
Date: - 29th March 2011

Sub: - TNM.

Time: - 11:45 - 12:45 pm

- Q.1 a) what is meant by DSL? (3)
 b) what are the categories of DSL? (4)
 c) Draw the architecture of ADSL (5)
 d) Draw the diagram showing the frequency bands used by voice commⁿ, Upstream & Downstream band that of ADSL (3)

OR

- Q.1 b) Write short notes on (15)
 a) Broadband cable modems
 b) Leased Lines
 c) LMDS

- Q.2 a) Explain what is a router? When does a router perform a look-up in routing table? List out various popular routing protocols & categorize them as distⁿ vector or link state. (5) (15)

OR

- Q.2 a) Compare static & dynamic routing (7)
 b) Write a short note on delay & jitter in networks (8)