Roll No. ....

Total No. of Questions : 09]

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B. Tech. (Sem. - 6th)
NETWORK OPERATING SYSTEM
SUBJECT CODE : IT - 308
Paper ID : [A0522]

[Note : Please fill subject code and paper ID on OMR]

Time : 03 Hours

Maximum Marks : 60

Instruction to Candidates:

1) Section - A is **Compulsory**.
2) Attempt any **Four** questions from Section - B.
3) Attempt any **Two** questions from Section - C.

Section - A

Q1)

(10 × 2 = 20)

a) What is the difference between simplex & half duplex?

b) What are the two types of transmission technology available?

c) What is the difference between the communication and transmission?

d) Why is Licensing essential and how does it help in authentication users to a server?

e) What do you understand by backups?

f) What are the hardware requirements for setting WIN NT server?

g) How is remote administration of server helpful for network administrators?

h) What is Intranet?

i) What is the acronym for ATM and FDDI?

j) How do you define the performance of Internet?

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P.T.O.

Section - B

(4 × 5 = 20)

Q2) What are the various transmission media available? State advantages and disadvantages of each.

Q3) What is ETHERNET used for? Explain the protocol used for medium sharing in case of Ethernet.

Q4) Explain the WIN NT network security model.

Q5) How are dual-ring systems used to maintain a link when a station fails in case of FDDI? Explain this with the help of a diagram. For n devices in a network, what is the number of cable links required for a mesh, ring and star topology, respectively?

Q6) How are groups and user accounts maintained in case of WIN NT?

Section - C

(2 × 10 = 20)

Q7) Explain in detail the WIN NT service architecture.

Q8) How can printing be done in WIN NT over internet and intranet? How does it support clients?

Q9) Compare and contrast Ethernet, ATM and FDDI.

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