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**Roll No.** ☐☐☐☐☐☐☐☐☐☐☐          **Total No. of Pages : 2**

**Total No. of Questions : 09**

**B.Tech. (IT) (Sem.–6th)**
# NETWORK OPERATING SYSTEM
### Subject Code : IT-308
### Paper ID : [A0522]

**Time : 3 Hrs.**                                          **Max. Marks : 60**

**INSTRUCTION TO CANDIDATES :**
1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.**

### SECTION-A

l.  Answer briefly :

   a)  Differentiate between Operating System and Network Operating System.

   b)  Differentiate between multiprocessing and multitasking.

   c)  Distinguish between WINNT and WINNT32.

   d)  Explain in brief about Remote Access Control.

   e)  What are SIDs? Discuss.

   f)  What is a VPN? Discuss.

   g)  How do we Partition a disk? Differentiate between Primary and Secondary Partitions.

   h)  What are access tokens? What is their role in Security?

   i)  What are Domain Controllers? Explain the importance of BDC server.

   j)  What are system calls?

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## SECTION-B

2.  What are the hardware requirements to install Windows NT Server? Write down the steps to install Windows NT Server.

3.  What is meant by contingency planning? What are the various steps involved in disaster recovery in Windows NT server ?

4.  What is meant by fault tolerance? Differentiate between disk mirroring and disk duplexing techniques of fault tolerance.

5.  How do we create and manage user accounts in Windows NT ? What are default rights allocated to a user? How additional rights to a user can be allocated?

6.  Compare and Contrast Ethernet and ATM Technologies.

## SECTION-C

7.  What are the salient features of Windows NT? Discuss Windows NT Services architecture in detail.

8.  Explain all the steps in designing the logical network by taking suitable example.

9.  Discuss the following:

    a)  Windows NT Network Security Model

    b)  FDDI