ITES ENGINEERING AND VOCATIONAL EXAMINATION BOARD NASHIK

CERTIFICATE COURSE
COMPUTER NETWORKING [CCN]

EXAM SCHEME: THEORY PAPER ONLY - 100 MARKS – 3 HRS.

[CCN / DCNES – III]

THEORY SYLLABUS

1) REVISION OF SYSTEM SOFTWARE & DIAGNOSTIC TOOLS: -
   a)   Installation of Window. (Win 95/98/98SE)
   b)   Study of Internal and External DOS Commands (Dir, Drive select, Check disk, CD, MD, RD, Copy, Fdisk, Format, Disk copy, Scandisk, Ver., Time, Date, etc.)
   c)   Study of Viruses and antidotes : Norton, PC-Clint, etc.
   d)   Study of Window (Control Panel, System Tools, Device manager, Display properties)
   e)   Introduction for use of Advances diagnostics (DM, Partition Magic, Defragmentation, etc.)
   f)   Study of Internet (To open E-mail account, Send and receive the E-mail)

2) NETWORKING BASICS: -
   a)   Networking : Introduction ,Topology ,Network components.
   b)   Network Media: UTP, STP, Coaxial cable, Optical Fiber .
   c)   Protocols –Definition, Types (TCP/IP PROTOCOL- advantages, Addressing)
   d)   Network Architecture : Ethernet, Token Ring, Apple Talk, Arcnet .
   e)   Network Access Methods.
   f)   Concept of OSI Model

3) NETWORK ENVIRONMENT: -
   a)   Network Operation : Server , NOS, Workstation ,Services , Applications .
   b)   E-Mail Standards.
   c)   Client/Server Environment.
   d)   Network Management.
   e)   Workgroup Environment.
   f)   Network Data Security – Password, Access Control, Data Encryption ,
   g)   Audition, Virus Protection, Back Up.
   h)   Data Transfers Modem, PSTN, Leased lines, ISDN .
   i)   Repeaters, Bridges, Routers, Brouters (Introduction).
   j)   Router Protols.   Gateways. WAN Types.

4) LINUX: -
   a)   Linux installation – Server & Workstation.
   b)   Configuration & Operation of Linux Workstation.
   c)   Basic Linux commands.

5)   A)   INTRODUCTION TO WINDOWS XP, NETWORK OPERATING SYSTEM (NOS) & NOVEL NETWORK

B)   WINDOW 2000 SERVER & WORKSTATION: -
   a)   Installation of Window 2000 Server .
   b)   Installation of Window 2000 Workstation.
   c)   Configuration of Window 200 Environment.

d)   Window 2000 Administration.
        e)   Application Support.
        f)   Remote Access Service .
        g)   Configuring TCP/IP network Services.

   C)   INTRODUCTION TO 2003 (DIFFERENCE BETWEEN WINDOWS2000 & 2003).

6) WEB TECHNOLOGY: -
        a)   Installation of Web Server (Microsoft PIS 4.0 Server)
        b)   Installation of E-Mail & Internet Services.
        c)   Installation of net version software e.g. Office 2000, CAD, Photoshop etc.
        d)   Implementing Microsoft W.W.W. (World Wide Web) services (IIS)
        e)   Implementing & installing Internet Services
        f)   Implementing FTP , SMTP , SNTP ,Security Features for Web server.
        g)   Indexing Web sites using Microsoft site Server Express.

7) DIAGNOSTIC: -
        Study of network Debugging Tools , E-Mail , Internet , GOPHER ,WWW, FTP services. Debugging in
        window 2000. Debugging in Network Printer.

GUIDELINES FOR QUESTION PAPER SETTERS - CCN / DCNES – III

	Marks
Q.No.1 A) Fill in the blanks.	(05)
B) Match the following.	(05)
C) Write short answer.(answers should not be more than 2 lines)	(10)
Q.No.2 A) Topic 1.	(08)
B) Topic 4.	(08)
Q.No.3 A) Topic 2.	(08)
B) Topic 6.	(08)
Q.No.4 A) Topic 3.	(16)
Q.No.5 A) Topic 5.	(16)
Q.No.6 A) Topic 7.	(16)

RECOMMENDED BOOKS FOR REFERENCE

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   4 in 1 Networking   BPB