Roll No:------------

Time 30 Minutes.   **Marks 20**

Note: This part is compulsory. It should be attempted on the Question paper and returned to the supervisory staff after the prescribe time. Cutting, over writing, use of lead pencil, ink remover, fluids is not allowed. Supervisory staff is requested to attach it with the answer book.

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Q.1 Choose the correct answer and encircle it.   1 X 20=20

1. Which Operating System doesn't support networking between computers?
   a) Windows 3.1   b) Windows 95   c) Windows 2000   d) Windows NT

2. Which of the following does not support more than one program at a time?
   a) DOS   b) Linux   c) Windows   d) Unix

3. Linux is a(n) … operating system
   a) Open source   b) Microsoft   c) Windows   d) Mac

4. Which operating system can you give smallest file name?
   a) Ps/2   b) Dos   c) Windows   d) Windows NT

5. Which of the following is not a multitasking operating system?
   a) Windows   b) Linux   c) Win NT   d) DOS

6. Which command is used to see the version of operating system?
   a) Vol   b) Version   c) Ver   d) None of the above

7. The data unit in the TCP/IP layer called a .....
   a) Message   b) Segment   c) Datagram   d) Frame

8. DNS can obtain the .... of host if its domain name is known and vice versa.
   a) Station address   b) IP address   c) Port address   d) Checksum

9. Which of the following OSI layers correspond to TCP/IP's application layer?
   a) Application   b) Presentation   c) Session   d) All of the above

10. In which OSI layers does the FDDI protocol operate?
   a) Physica   b) Data link   c) Network   d) A and B

11. DHCP provides _____ to the client.
   a) IP address   b) MAC address   c) url   d) None of the mentioned

12. DHCP uses UDP port ____ for sending data to the server.
   a) 66   b) 67   c) 68   d) 69

13. The entire hostname has a maximum of
   a) 255 characters   b)127 characters   c) 63 characters   d) 31 characters

14. A DNS client is called
   a)DNS updater   b)DNS resolver
   c)DNS handler   d) none of the mentioned

15. Wildcard domain names start with label
   a) @   b)*   c)&   d)#

16. The domain name system is maintained by
   a) Distributed database system   b) A single server
   c) a single computer   d) None of the mentioned

17. HTTP is _____ protocol.
   a) Application layer   b) Transport layer
   c) Network layer   d) None of the mentioned

18. FTP server listens for connection on port number
   a) 20   b)21   c)22   d)23

19. **Multiple object can be sent over a TCP connection between client and server in**
   a)Persistent HTTP   b) Non persistent HTTP
   c) both (a) and (b)   d) None of the mentioned

20. The command allows you to create logical drive
   a) Sort   b) Path   c) Subst   d) Batch

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SUBJECTIVE

PART-B

Time: 2:30 Hours   **Marks 80**

SECTION-I

Q.1   **Attempt any twenty five (25) questions.**   **2x25=50**

1. Differentiate between linux and Windows,
2. Describe Windows Server .
3. Write down the steps of Install Windows Server .
4. Write post-installation configuration of Windows Server.
5. Describe the management tools available in Windows Server.
6. List down basic administrative tasks using Windows Power Shell.
7. Describe the structure of AD DS.
8. Describe the purpose of domain controllers.
9. Write down the steps of Install a domain controller.
10. How Manage user accounts with graphical tools.
11. How Manage group accounts with graphical tools.
12. How Manage computer accounts.
13. How Delegate permissions to perform AD DS administration.
14. Describe the TCP/IP protocol suite.
15. Describe IPv4 addressing.
16. Determine a subnet mask necessary for super netting or sub netting.
17. How Configure IPv4 communication?
18. How troubleshoot IPv4 communication?
19. What is subnet mask?
20. Explain the DHCP server role.
21. How Configure DHCP scopes.
22. How Secure and monitor the DHCP server role.
23. Describe name resolution for Windows operating system clients and Windows Server servers.
24. How to Install a DNS Server?
25. How to manage a DNS Server.
26. How to Manage DNS zones.
27. Describe the features and benefits of IPv6.
28. Describe IPv6 addressing.
29. Describe IPv6 coexistence with IPv4.
30. Describe IPv6 transition technologies.
31. How to Create and manage Group Policy Objects (GPOs).
32. Describe Group Policy processing.
33. what is FTP?
34. Describe Windows Server operating system security.
35. Configure security settings by using Group Policy.
36. How to Increase security for server resources.
37. How to Configure Windows Firewall with Advanced Security.

SECTION-II

Long Question

       Note attempt any three (3) questions.   **3x10=30**

Q2. Describe different Network topologies.

Q3. What is OSI model?

Q4. Design a DNS name resolution strategy, create the namespace design?

Q5. Define why I choose Linux OS for client server environment?

Q6. Write a note on DHCP, SAMBA and file server configuration.