

B.Sc.(IT) Semester - 4 (CBCS) Examination**April/May -2022 [OLD COURSE]****CS-21 NETWORK TECHNOLOGY AND ADMINISTRATION (CORE)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
 2. Figures to the right indicate marks.
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- Q.1(A) Attempt following questions. (04)
1. FDDI stands for_____.
 2. OSI stands for _____.
 3. CSMA/CA stands for_____.
 4. MAN stands for_____.
- Q.1(B) Attempt following. (Attempt any one) (02)
1. What is Token Passing?
 2. Explain Encryption.
- Q.1(C) Attempt following. (Attempt any one) (03)
1. Explain peer to peer network model.
 2. Write short note on Network services.
- Q.1(D) Attempt following. (Attempt any one) (05)
1. Explain OSI reference model in detail.
 2. Explain Communication methods.
- Q.2(A) Attempt following questions. (04)
1. ADSL stands for_____.
 2. MODEM stands for_____.
 3. FDM stands for_____.
 4. DSL stands for_____.
- Q.2(B) Attempt following. (Attempt any one) (02)
1. What is Multiplexing?
 2. What is Demultiplexing?
- Q.2(C) Attempt following. (Attempt any one) (03)
1. Explain switching techniques in detail.
 2. Write short note on HUB.
- Q.2(D) Attempt following. (Attempt any one) (05)
1. Explain type of Multiplexing in detail.
 2. Explain Router, Bridge and Gateway in detail.
- Q.3(A) Attempt following questions. (04)
1. RARP stands for_____.
 2. SMTP stands for_____.
 3. IGRP stand for_____.
 4. OSPF stands for_____.
- Q.3(B) Attempt following. (Attempt any one) (02)
1. What is Protocol?
 2. What is Routing?

- Q.3(C) Attempt following. (Attempt any one) (03)
1. Write short note on Telnet.
 2. Explain HTTP and FTP.
- Q.3(D) Attempt following. (Attempt any one) (05)
1. Explain Link State routing protocols.
 2. Explain types of routing in detail.
- Q.4(A) Attempt following questions. (04)
1. IPv4 address represent in_____bits.
 2. IPv6 address represent in_____bits.
 3. MMC stands for_____bits.
 4. In sub netting IPv4 network is broken into two parts, Network Id and_____.
- Q.4(B) Attempt following. (Attempt any one) (02)
1. List out various editions of windows 2008 server.
 2. Explain static IP address.
- Q.4(C) Attempt following. (Attempt any one) (03)
1. Differentiate IPv4 V/S IPv6.
 2. Explain type of IP address.
- Q.4(D) Attempt following. (Attempt any one) (05)
1. Explain class structure of IPv4 in detail.
 2. Explain Audit Policy of Window Server 2008.
- Q.5(A) Attempt following questions. (04)
1. ISDN stands for_____.
 2. VPN stands for_____.
 3. PPTP stands for_____.
 4. GPRS stands for_____.
- Q.5(B) Attempt following. (Attempt any one) (02)
1. What is Internet?
 2. What is firewall?
- Q.5(C) Attempt following. (Attempt any one) (03)
1. Explain VPN protocols in brief.
 2. Explain security principles of CIA model.
- Q.5(D) Attempt following. (Attempt any one) (05)
1. Explain types of network security methods.
 2. Explain Dial Up and ISDN technology.
