

B.C.A 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) Answer following Questions (04)

1. What is client-server model?
2. Give full form of CSMA/CA
3. In _____ topology each node is connected to the two nearest nodes son the entire network forms a circle
4. _____ communication method a piece of information is sent from one point to all other points. In this case there is just one sender, but the information is sent to all connected receivers.

Q.1(B) Answer Any One (02)

1. What is encryption?
2. What is Token Passing?

Q.1(C) Answer Any One (03)

1. Explain CSMA/CD.
2. Explain File sharing in LAN.

Q.1(D) Answer Any One (05)

1. Explain Advanced Network Topologies.
2. Explain OSI Reference Model with 7 Layers.

Q.2(A) Answer following Questions (04)

1. Give full form of ADSL.
2. Give full form of LASER.
3. _____ is a Short range communication 10 miter (30 feet) between various devices like laptops, PDAs, PCs, gaming consoles etc.
4. _____ make communication possible between different architectures and environments. They repackage and convert data going from one environment to another so that each environment can understand the other's environment data.

Q.2(B) Answer Any One (02)

1. What is modem?
2. What is Bridge?

Q.2(C) Answer Any One (03)

1. Explain FDM and TDM.
2. Explain circuit switching.

Q.2(D) Answer Any One (05)

1. Write short note on unguided transmission media.
2. Write short note on wireless transmission media.

- Q.3(A) **Answer following Questions** (04)
- 1.State types of routing.
 - 2.Give full form of OSPF.
 - 3._____ is an exterior gateway routing protocol that enables groups of routers to share routing information so that efficient, loop-free routes can be established.
 - 4.Give full form of SNMP.
- Q.3(B) **Answer Any One** (02)
1. State difference between TCP/IP and UDP.
 2. What is use of Appletalk?
- Q.3(C) **Answer Any One** (03)
1. What is routing? Explain requirements of routing?
 2. Explain IGRP and EIGRP.
- Q.3(D) **Answer Any One** (05)
1. Explain Interior Routing Protocol.
 2. Explain TCP/IP protocol stack.
- Q.4(A) **Answer following Questions** (04)
1. _____ is an address used in order to uniquely identify a device on an IP network.
 2. Class _____ is used for multicast purpose.
 3. In _____, multiple networks are combined into a bigger network termed as a Supernet or Supernet.
 4. _____ is a computer network tool used to test whether a particular host is reachable across an IP network; it is also used to self test the network interface card of the computer.
- Q.4(B) **Answer Any One** (02)
1. Explain Groups.
 2. What is subnetting?
- Q.4(C) **Answer Any One** (03)
1. Explain editions of Windows 2008 server.
 2. Explain MMC.
- Q.4(D) **Answer Any One** (05)
1. Write short note on IPv6.
 2. Explain installation and configuration of Active Directory.
- Q.5(A) **Answer following Questions** (04)
1. Define Cryptography.
 2. Give full form of L2TP.
 3. List out information security trinity.
 4. Full form of GPS.
- Q.5(B) **Answer Any One** (02)
1. What is GPRS ?
 2. Explain firewall.
- Q.5(C) **Answer Any One** (03)
1. Explain CCTV Technology.
 2. Explain CIA Model.
- Q.5(D) **Answer Any One** (05)
1. Write short note on VPN.
 2. Explain Dialup and ISDN Technology.
