



DZ-003-00340900

Seat No. _____

B. C. A. (Sem. IV) (CBCS) (W.E.F. 2016) Examination

April - 2022

CS - 21 : Network Technology & Administration

(Old Course)

Faculty Code : 003

Subject Code : 00340900

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

Instruction : Attempt any five questions out of ten.

- 1 (a) Objective type questions : 4
- (1) _____ topology is a combination of two or more network topologies.
 - (2) Give full form of CDDI.
 - (3) What is Computer Network ?
 - (4) Give full form of P2P.
- (b) What is Encryption ? Explain it. 2
- (c) Explain Bus and Ring topologies. 3
- (d) Explain TCP/IP network model. 5
- 2 (a) Objective type questions : 4
- (1) How many layers are there in OSI reference model ?
 - (2) Give full form of CSMA/CD.
 - (3) Which layer of OSI reference model is responsible for routing ?
 - (4) Give full form of LAN.
- (b) Explain client-server network model. 2
- (c) Explain Ethernet and FDDI. 3
- (d) Explain Network Communication Methods. 5

- 3 (a) Objective type questions : 4
- (1) Give full form of FDM.
 - (2) What is MODEM ?
 - (3) Which switching method reduced traffic congestion ?
 - (4) The frequency range of HF is _____.
- (b) What is Multiplexing ? Write benefits of Multiplexing. 2
- (c) Explain Devices : Gateway, Repeater. 3
- (d) Explain Fiber Optic Cable and Co-Axial Cable in detail. 5
- 4 (a) Objective type questions : 4
- (1) Repeater is used at _____ layer of OSI reference model.
 - (2) Give full form of CDM.
 - (3) Give full form of ADSL.
 - (4) Microwave is unguided media. (True / False)
- (b) What is Hub ? List out types of Hub. 2
- (c) Difference between Router and Brouter. 3
- (d) Explain Switching Techniques. 5
- 5 (a) Objective type questions : 4
- (1) Give full form of SMTP.
 - (2) Give full form of IGRP.
 - (3) What is Packet ?
 - (4) Give full form of OSPF.
- (b) Explain Connection Less Protocol. 2
- (c) Explain IPX/SPX. 3
- (d) Explain SNMP and TELNET in detail. 5

- 6** (a) Objective type questions : **4**
- (1) Give full form of HTTP.
 - (2) Give full form of RIP.
 - (3) Give full form of ARP.
 - (4) UDP is Connection Oriented Protocol.
(True /False)
- (b) Explain NetBIOS Name Protocol. **2**
- (c) What is Routing ? Explain types of Routing. **3**
- (d) Explain Link state routing protocols with its all types. **5**
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- 7** (a) Objective type questions : **4**
- (1) How many versions available of IP ?
 - (2) Give full form of MMC.
 - (3) Define: IP address.
 - (4) An IP address 255.0.0.0 is a default address mask
of class _____.
- (b) Explain Logging Events. **2**
- (c) Explain various editions of windows 2008 server. **3**
- (d) Explain IPv4 Class structure. **5**
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- 8** (a) Objective type questions : **4**
- (1) How many bits address contains by IPv6 ?
 - (2) _____ contains domains and it is used to
define the scope of authority to the administrators.
 - (3) Class D addresses are reserved for _____.
 - (4) What is tree ?
- (b) Explain Audit Policy. **2**
- (c) Explain supernetting. **3**
- (d) Explain MMC in detail. **5**

- 9** (a) Objective type questions : **4**
- (1) Give full form of CIA.
 - (2) Give full form of CCTV.
 - (3) What is Internet ?
 - (4) What is Network Security ?
- (b) Explain Firewall. **2**
- (c) Explain Leased Line Technology. **3**
- (d) Explain Authentication and Cryptography. **5**
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- 10** (a) Objective type questions : **4**
- (1) What is GPS ?
 - (2) Give full form of ISDN.
 - (3) Give full form of GPRS.
 - (4) Symmetric key is also known as secret key.
(True / False)
- (b) Explain use of Dial-up technology. **2**
- (c) Explain types of VPN. **3**
- (d) Explain Fundamentals of Network Security. **5**
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