



RAI-003-00340900

Seat No. _____

B. C. A. (Sem. IV) (CBCS) Examination

March / April - 2019

CS-21 : Network Technology & Administration

(New Course)

Faculty Code : 003

Subject Code : 00340900

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

[Total Marks : 70

- 1 (a) Attempt the following : 4
- (1) What is Computer Network ?
 - (2) OSI stand for _____.
 - (3) Segmentation process done by _____ layer of OSI model.
 - (4) _____ layer provide acknowledgement during data transfer from one node to another node.
- (b) Attempt the following : (any one) 2
- (1) Explain Encryption.
 - (2) Explain Polling.
- (c) Attempt the following : (any one) 3
- (1) What is Network Topology ? Explain Star Topology.
 - (2) Explain CDDI and FDDI network methods.
- (d) Attempt the following : (any one) 5
- (1) Explain OSI ref. model in detail.
 - (2) Explain TCP/IP model in detail.
- 2 (a) Attempt the following : 4
- (1) What is Twisted Pair Cables ?
 - (2) What is Transmission Media ?
 - (3) The frequency range of VHF is _____.
 - (4) Which switching method reduced traffic congestion ?

- (b) Attempt the following : (any one) 2
- (1) What is Guided Media ? List out all guided media.
 - (2) What is DeMultiplexing ?
- (c) Attempt the following : (any one) 3
- (1) Difference between Hub and Bridge.
 - (2) Difference between Router and Brouter.
- (d) Attempt the following : (any one) 5
- (1) What is layer 1 device ? Explain DSL, MODEM and Repeater in detail.
 - (2) Explain FDM, TDM and WDM in detail.
- 3** (a) Attempt the following : 4
- (1) MTA stand for _____.
 - (2) _____ used to associate an IP address with the MAC address.
 - (3) IGRP stand for _____.
 - (4) OSPF stand for _____.
- (b) Attempt the following : (any one) 2
- (1) What is Routing ?
 - (2) Explain connection oriented protocol.
- (c) Attempt the following : (any one) 3
- (1) Explain RFCOMM protocol.
 - (2) Explain NETBIOS protocol.
- (d) Attempt the following : (any one) 5
- (1) Explain distance vector routing protocols with its all types.
 - (2) Explain link state routing protocols with its all types.

- 4 (a) Attempt the following : 4
- (1) IPV6 contain how much byte address ?
 - (2) Class D address reserved for_____.
 - (3) An ip address 255.0.0.0 is a default address mask of class B. True/False ?
 - (4) Which command is required to check connection status between two computers ?
- (b) Attempt the following : (any one) 2
- (1) Explain Dynamic ip address.
 - (2) Explain supernetting process.
- (c) Attempt the following : (any one) 3
- (1) Explain Audit Policy of Window Server 2008.
 - (2) Explain IPV4 with class structure.
- (d) Attempt the following : (any one) 5
- (1) Explain Domain, Tree and Forest concept.
 - (2) Explain Migration from IPV4 to IVP6 in detail.
- 5 (a) Attempt the following : 4
- (1) CIA stand for _____.
 - (2) Symmetric key is also known as _____.
 - (3) ISDN network required _____ and _____ interface ports.
 - (4) CCTV stand for _____.
- (b) Attempt the following : (any one) 2
- (1) What is Internet ?
 - (2) What is Threat in network security ?

- (c) Attempt the following : (any one) **3**
- (1) Explain Cryptography.
 - (2) Explain Dial-up in detail.
- (d) Attempt the following : (any one) **5**
- (1) Explain fundamentals of Network Security.
 - (2) What are GPS and GPRS ? Explain GPRS in detail.
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