



BRAINWARE UNIVERSITY

Term End Examination 2023-2024

Programme – M.Sc.(ANCS)-2022

Course Name – Switching Professional

Course Code - MNCS401

(Semester IV)

Library
Brainware University
398, Ramkrishnapur Road, Barasat
Kolkata, West Bengal-700121

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :
 - (i) Identify the transmission medium that provides the highest transmission speed in a network.
 - a) Coaxial cable
 - b) Twisted pair cable
 - c) Optical fiber
 - d) Electrical cable
 - (ii) Identify the medium through which the wireless signal can move.
 - a) Radio waves
 - b) Microwaves
 - c) Infrared
 - d) All of the mentioned
 - (iii) Select the answer that best describes multilayer switching with CEF.
 - a) The first packet is routed and then the flow is cached
 - b) The switch supervisor CPU forwards each packet.
 - c) The switching hardware learns station addresses and builds a routing database.
 - d) A single database of routing information is built for the switching hardware.
 - (iv) Determine the information that is used to forward frames in a Layer 2 switch.
 - a) Source MAC address
 - b) Destination MAC address
 - c) Source switch port
 - d) IP addresses
 - (v) Choose the appropriate option. If a switch port is in an errdisable state, what is the first thing you should do?
 - a) Reload the switch
 - b) Use the clear errdisable port command.
 - c) Use the shut and no shut interface-configuration commands.
 - d) Determine the cause of the problem.
 - (vi) Assume that you have just entered the configure terminal command. You want to configure the speed and duplex of the first 10/100/1000 twisted-pair Ethernet interface on the first Cisco Catalyst switch stack member to 1-Gbps full-duplex mode. Which commands should you select and enter first?
 - a) speed 1000 mbps
 - b) speed 1000
 - c) interface gigabitethernet 1/0/1
 - d) interface gigabit ethernet 1/0/1

11. Explain the Native VLAN with a proper example. (5)
12. Explain the brief concept of DTP. (5)

OR

Explain what is meant by "router on a stick." (5)



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