

Subject Code: ITC701

Subject: Enterprise Network Design

Sem:VII

Year: BE

Branch:IT

Total Marks: 80

N.B.: (1) Question No.1 is compulsory.

(2) Make suitable assumptions wherever necessary but justify your assumptions.

Q.1	Select the correct answer(10*2M=20M)
1	Planned Applications and Network Services includes
OPTION A	Planned Architecture types, Applications, Level of importance and Comments
OPTION B	Planned Application types, design, Level of importance and Comments.
OPTION C	Planned Application types, Applications, Level of importance and Comments
OPTION D	Planned Application types, Applications, Level of importance and Implementation
2	The PPDIIO network lifecycle
OPTION A	Reflects the phases of a standard network's lifecycle
OPTION B	Defines the steps in which the user has to maintain the network
OPTION C	Shows how to implement security in a phased manner
OPTION D	Reflects the phases of a standard requirement lifecycle
3	Enterprise Data center service devices deployed at the.....benefit only the servers that are directly attached to the specific access switch
OPTION A	Core Layer
OPTION B	Access layer
OPTION C	Distribution Layer
OPTION D	Layer 4
4	The network size, in terms of the IP addressing plan, relates to _____
OPTION A	the number of devices and interfaces that need an IP address.
OPTION B	the number of devices and interfaces that need an MAC address.
OPTION C	the number of devices and interfaces that need a routing information

OPTION D	the number of devices and interfaces that need a security ID
5	Which is not an Interior gateway protocols?
OPTION A	RIP
OPTION B	OSPF
OPTION C	IS-IS
OPTION D	BGP
6	___ is the message used by the switch to transfer the control of the packet to the controller
OPTION A	Read-state
OPTION B	Features
OPTION C	Packet-out (Send - Packet)
OPTION D	Packet-in
7	A poorly designed IP addressing scheme usually has ___ and ___ is not the impact of poorly designed IP addressing scheme
OPTION A	Summarizing routes
OPTION B	Routing routes
OPTION C	Redirecting routes
OPTION D	Updating Routes
8	Of the following which is not the advantage of route summarization
OPTION A	reduces the number of routes in the routing table
OPTION B	reduces the routing update traffic
OPTION C	overall router overhead in the router receiving the routes
OPTION D	Routers operating life increases
9	___ extracts the information (statistics and events) from the hardware devices and sends to SDN application
OPTION A	SDN Switch (SDN Networking devices)
OPTION B	SDN Controller

OPTION C	SDN Application
OPTION D	SDN Interfaces
10	Which types of devices are usually found in the Ecommerce module?
OPTION A	Web servers, firewalls, NIDS appliances
OPTION B	SMTP mail servers, firewalls, Public FTP servers, DNS
OPTION C	Public FTP servers, DNS
OPTION D	ASAs, NIDS appliances, firewalls
Q.2	Answer any two from the following (2*10M=20M)
A	Explain the OSPF protocol in detail
B	What is route summarization, and why would a network need it?
C	How does a good routing protocol assure a good network design? Explain with example
Q.3	Answer any two from the following (2*10M=20M)
A	Describe various phases in the PPDIIO network life cycle.
B	Compare the Top-Down vs Bottom-Up Network Design Approach
C	Compare the Enterprise WAN architecture technologies
Q.4	Write a short note on (Any Two 2*10M=20M)
A	IPv6
B	SDN Architecture
C	SONA framework