

University of Mumbai
Examination 2020

Program: Information Technology

Curriculum Scheme: Rev2016

Examination: BE Semester VII

Course Code: **ITC701** and Course Name: **Enterprise Network design**

Time: 2 hour

Max. Marks: 80

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	Network congestion occurs
Option A:	in case of traffic overloading
Option B:	when a system terminates
Option C:	when connection between two nodes terminates
Option D:	when system fails
2.	Implementation and _____ begins after the design has been approved.
Option A:	verification
Option B:	validation
Option C:	requirement
Option D:	correction
3.	The _____ layer provides local and remote workgroup or user access to the network.
Option A:	Access layer
Option B:	Distribution layer
Option C:	Core layer
Option D:	Physical layer
4.	The most common design for remote users is to use _____
Option A:	multilayer switches or routers
Option B:	hubs
Option C:	switches
Option D:	routers
5.	A _____ is a formal request to vendors for proposals that meet the requirements that the document identifies.
Option A:	RPF
Option B:	RFP
Option C:	RFF
Option D:	RFC
6.	A _____ is sent when specific conditions occur, such as a change in the state of a device, a device or component failure, or an agent initialization or restart.
Option A:	Get request
Option B:	Get next request

Option C:	Set request
Option D:	Trap
7.	_____ attacks typically exploit well-known weaknesses in common software programs to gain access to a computer.
Option A:	Application layer
Option B:	Session layer
Option C:	Transport layer
Option D:	Data link layer
8.	Route summarization is also called as _____
Option A:	subnetting
Option B:	supernetting
Option C:	masking
Option D:	routing
9.	IP telephony is a part of _____
Option A:	application layer
Option B:	interactive service layer
Option C:	network infrastructure layer
Option D:	business layer
10.	Which of the following is the correct order of the six phases of PPDIOO?
Option A:	Plan Prepare Design Implement Optimize Operate
Option B:	Prepare Plan Design Implement Operate Optimize
Option C:	Plan Prepare Design Implement Operate Optimize
Option D:	Prepare Plan Design Implement Optimal Operate
11.	Which design solution states that a design must start from the application later and finish in the physical layer?
Option A:	Top-down approach
Option B:	Hierarchical architecture
Option C:	PPDIOO model
Option D:	OSI model
12.	The main difference between SNMPv3 and SNMPv2 is _____
Option A:	Management
Option B:	Integration
Option C:	Classification
Option D:	Enhanced security
13.	SNMP is tightly connected with RMON and _____
Option A:	CDP
Option B:	MIB
Option C:	NMS
Option D:	NSM
14.	RMON1 performs function in _____ layer.

Option A:	Data link layer
Option B:	Network layer
Option C:	Transport layer
Option D:	Session layer
15.	TCP/IP model does not have _____ layer but OSI model have this layer.
Option A:	session layer
Option B:	transport layer
Option C:	application layer
Option D:	network layer
16.	UDP is called a _____ protocol
Option A:	Connectionless
Option B:	Connection oriented
Option C:	Reliable
Option D:	Correct
17.	EIGRP is a _____ protocol
Option A:	Cisco-proprietary
Option B:	open source
Option C:	normal
Option D:	efficient
18.	IPV6 Address is
Option A:	8 bit
Option B:	128 bit
Option C:	32 bit
Option D:	64 bit
19.	DHCP is the abbreviation of
Option A:	Dynamic Host Control Protocol
Option B:	Dynamic Host Configuration Protocol
Option C:	Dynamic Hyper Control Protocol
Option D:	Dynamic Hyper Configuration Protocol
20.	_____ is required if accessibility to the public Internet or public visibility is required.
Option A:	CAT
Option B:	PAT
Option C:	SAT
Option D:	MAT

Q2	Solve any Two Questions out of Three 10 marks each
A	<i>Explain SONA framework for flexible network design</i>
B	<i>Explain the role of SNMP in network management</i>
C	<i>State and explain IPv4 to IPv6 Transition strategies</i>

Q3.	
A	Solve any Two 5 marks each
i.	<i>Compare the top down and bottom up approach</i>
ii.	<i>Explain different external threats hampering the integrity of the enterprise network.</i>
iii.	<i>Explain the hierarchical network model of network design.</i>
B	Solve any One 10 marks each
i.	<i>Explain EIGRP in detail</i>
ii.	<i>Write a note on SDN architecture.</i>