

**University of Mumbai**

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

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<b>Q1.</b>	<b>Choose the correct option for following questions. All the Questions are compulsory and carry equal marks</b>
1.	Network congestion occurs
Option A:	<b>in case of traffic overloading</b>
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:	<b>verification</b>
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:	<b>Access layer</b>
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:	<b>multilayer switches or routers</b>
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:	<b>RFP</b>
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:	<b>Trap</b>
7.	_____ attacks typically exploit well-known weaknesses in common software programs to gain access to a computer.
Option A:	<b>Application layer</b>
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:	<b>supernetting</b>
Option C:	masking
Option D:	routing
9.	IP telephony is a part of _____
Option A:	<b>application layer</b>
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 PPDIIO?
Option A:	Plan Prepare Design Implement Optimize Operate
Option B:	<b>Prepare Plan Design Implement Operate Optimize</b>
Option C:	Plan Prepare Design Implement Operate Optimize
Option D:	Prepare Plan Design Implement Optimal Operate

**Please use either of the 3 option given below while setting up the subjective/descriptive questions**

<b>Q2.</b>	<b>Solve any Four out of Six</b>	<b>5 marks each</b>
A	<i>Explain 3 layers of SONA framework.</i>	
B	<i>Explain the role of Access layer.</i>	
<b>C</b>	<i>Which are the network services imbedded in infrastructure services?</i>	
D	<i>Explain traditional WAN technologies.</i>	
E	<i>What is IPsec?</i>	
F	<i>Explain route summarization with example.</i>	

<b>Q3</b>	<b>Solve any Two Questions out of Three 10 marks each</b>
A	<i>Write a short note on MPLS.</i>
B	<i>Explain the role of SNMP in network management</i>
C	<i>State and explain IPv4 to IPv6 Transition strategies</i>

<b>Q4.</b>	
A	<b>Solve any Two <span style="float: right;">5 marks each</span></b>
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	<b>Solve any One <span style="float: right;">10 marks each</span></b>
i.	<i>Explain EIGRP in detail</i>
ii.	<i>Write a note on SDN architecture.</i>