

University of Mumbai

Examination 2020

Examinations Commencing from 7th January 2021 to 20th January 2021

Program: Electronics and Telecommunication Engineering

Curriculum Scheme: Rev2016

Examination: BE Semester VII

Course Code: ECCDLO7033 and Course Name: Internet Communication Engineering

Time: 2 hour

Max. Marks: 80

Q1.	Choose the correct option for following questions. All the questions are compulsory and carry equal marks
1.	TCP/IP is a _____
Option A:	Network Hardware
Option B:	Network Software
Option C:	Protocol
Option D:	None of these
2.	TCP/IP mainly used for _____
Option A:	File Transfer
Option B:	Email
Option C:	Remote Login Service
Option D:	All of these
3.	NetBIOS is developed by _____
Option A:	Microsoft
Option B:	IBM
Option C:	Sun
Option D:	None of these
4.	Which is the part of the Data Link Layer?
Option A:	LLC
Option B:	MAC
Option C:	Both a and b
Option D:	None of these

5.	How many ports a computer may have?
Option A:	256
Option B:	128
Option C:	65535
Option D:	1024
6.	In computer which range is in registered ports
Option A:	0 to 1023
Option B:	1024 to 49151
Option C:	49151 to 65535
Option D:	None of these
7.	TTL stands for _____
Option A:	Time-To-Login
Option B:	Time-To-Live
Option C:	Transistor-Transistor-Live
Option D:	None of these
8.	Which is the false statement
Option A:	Telnet is used for remote login.
Option B:	FTP can transfer files between two hosts.
Option C:	TFTP rely on TCP.
Option D:	SMTP used to send mail message
9.	Which agency assign IPs
Option A:	IEEE
Option B:	ANSI
Option C:	ICANN
Option D:	BSNL
10.	Which is the component of IP?
Option A:	Client Identifier
Option B:	Network Identifier
Option C:	Host Identifier

Option D:	Both b and c
11.	Which IP address is reserved for loopback or localhost?
Option A:	192.168.0.0
Option B:	127.0.0.0
Option C:	127.0.0.1
Option D:	None of these
12.	Which class of IP is used in smaller organizations?
Option A:	Class A
Option B:	Class B
Option C:	Class C
Option D:	Class D
13.	The size of the IPv4 is
Option A:	16 Bits
Option B:	32 Bits
Option C:	64 Bits
Option D:	128 Bits
14.	The subnet mask 255.255.0.0 belongs to
Option A:	Class A
Option B:	Class B
Option C:	Class C
Option D:	Class D
15.	URL stands for
Option A:	Universal Resource Locator
Option B:	Uniform Resource Locator
Option C:	Uniform Radio Locator
Option D:	None of these
16.	Which is not the server-side programming language
Option A:	JSP

Option B:	ASP
Option C:	JavaScript
Option D:	PHP
17.	Which is not the requirement of the internet
Option A:	Operating System
Option B:	Dos
Option C:	Web browser
Option D:	Modem
18.	Which is the fastest port for data transfer?
Option A:	USB
Option B:	Serial
Option C:	Parallel
Option D:	FireWire
19.	The default port for HTTP
Option A:	23
Option B:	80
Option C:	21
Option D:	25
20.	In which layer of OSI model IP is available?
Option A:	Layer 1
Option B:	Layer 2
Option C:	Layer 3
Option D:	Layer 4

Option 3

Q2.	20 marks
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A.	Solve any Two	5 marks each
i.	Explain the “Tunneling Procedure” in IPv6 protocol.	
ii.	Explain the different RTCP messages used for real time communication.	
iii.	Explain the need of audio or video compression in multimedia communication.	
B.	Solve any One 10 mark each	
i.	Explain the different traffic scheduling techniques used for providing QoS.	
ii.	Explain in brief the characteristics “Jitter”, “timestamp”, “Mixing” and “Translation” in real time audio and video communication with respect to RTP.	

Q3.		20 marks
A.	Solve any Two	5 marks each
i.	Differentiate between leaky bucket and token bucket methods of traffic shaping.	
ii.	How is SCTP association different with respect to TCP connection establishment?	
iii.	Write a note on ICMPv6 messages	
B.	Solve any One 10 mark each	
i.	Elaborate on PGP scenarios for Application layer security.	
ii.	Explain how DNS queries are resolved by iterative and recursive methods and also explain why caching is required in DNS?	