

University of Mumbai
Examination Second Half 2021

Examinations Commencing from 22nd November 2021 to 5th January 2022

Program: **Electronics Engineering**

Curriculum Scheme: Rev2016

Examination : BE Semester VII

Course Code: ELXDLO7032 Course Name: Advance Networking Technologies

Time: 2 hour 30 minutes

Max. Marks: 80

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	Bluetooth operating range of Class 2 radio device is up to _____
Option A:	1 meter
Option B:	10 meter
Option C:	100 meter
Option D:	50 meter
2.	In Bluetooth, the _____ link is used when data integrity is more important than avoiding latency.
Option A:	SCO
Option B:	ACO
Option C:	ACL
Option D:	SCL
3.	An ATM cell consist of _____ bytes.
Option A:	48
Option B:	53
Option C:	256
Option D:	1024
4.	In SONET, line overhead consist of _____
Option A:	20 Bytes
Option B:	18Bytes
Option C:	9 Bytes
Option D:	22 Bytes
5.	The computation of the shortest path in OSPF is usually done by _____
Option A:	Bellman-ford algorithm
Option B:	Routing information protocol
Option C:	Dijkstra's algorithm
Option D:	Distance vector routing
6.	When you use the word _____ it means you are protecting your data from getting disclosed.
Option A:	Confidentiality
Option B:	Integrity
Option C:	Authentication
Option D:	Availability

7.	A firewall is a network security system _____based that controls incoming and outgoing network traffic based on a set of rules:
Option A:	Only Hardware
Option B:	Only Software
Option C:	Both Hardware and Software
Option D:	Neither Hardware Nor Software
8.	_____ provides virtual machines, virtual storage, virtual infrastructure, and other hardware assets.
Option A:	Only Iaas
Option B:	Only Paas
Option C:	Only Saas
Option D:	Both Paas and Saas
9.	A virtual connection is identified by _____.
Option A:	TPI & VPI
Option B:	TPI & VCI
Option C:	VCI & VPI
Option D:	VPI
10.	_____ also known as impulse or zero-carrier radio technology.
Option A:	Ultra wideband technology
Option B:	RFID technology
Option C:	Multicasting
Option D:	Multiplexing

Q2 (20 Marks)	Solve any Four out of Six (5 marks each)
A	Explain ATM Adaptation Layer.
B	Write a Short Note on RFID.
C	What is the need of DWDM? Brief working principle.
D	How SNAT works in network security.
E	Write a Short Note on OSPF
F	Write a Short Note on cloud deployment model.

Q3 (20 Marks)	Solve any Two Questions out of Three (10 marks each)
A	Briefly explain functions of all ATM adaptation Layer Protocols.
B	What is SNMP protocol? Explain MIB in detail.
C	Explain Bluetooth protocol stack.

Q4. (20 Marks)	Solve any Two Questions out of Three (10 marks each)
A	How firewall helps to provide security? Explain any 2 types of firewall along with limitations and advantages
B	Draw and explain SONET frame format.
C	Write a SN on a) RMON b) wireless Sensor Network.