

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE – APRIL - 2023
COMPUTER NETWORKS - II**

(Maximum Marks : 75)

[Time : 3 hours]

PART-A

I. Answer all the following questions in one word or sentence. Each question carries 1 mark.

(9x1=9 marks)

		Module Outcome	Cognitive level
1	What is the address length of IPV6 in bits?	M1.01	R
2	Expand Wi-fi.	M1.03	R
3	What is an active directory?	M2.01	R
4	Define firewall.	M2.04	R
5	Specify the use of CLI in IOS.	M3.03	R
6	List any two types of IOS message logging.	M3.06	R
7	List any two advantages of TCP/IP static routing.	M4.03	R
8	What is BGP?	M4.04	R
9	Mention any two interior gateway protocols.	M4.04	R

PART B

II. Answer any Eight questions from the following. Each question carries 3 marks.

(8x3=24)

		Module Outcome	Cognitive level
1	Explain subnet mask.	M1.01	R
2	Mention the role of router in computer networks.	M1.02	R
3	Explain Bluetooth technology.	M1.03	R
4	Outline the functions of domain controller.	M2.01	R
5	Define workgroup.	M2.02	R
6	Describe about any two types of system backup.	M2.04	R
7	Write about any two types of router interface.	M3.02	R
8	Briefly explain IOS message logging.	M3.06	R
9	List and explain any three routing metric variables.	M4.04	R
10	Briefly explain disaster recovery.	M4.01	R

PART C

Answer **all** questions from the following. Each question carries 7 marks.

(6x7=42marks)

			Module Outcome	Cognitive level
III	a) What is DHCP? (2 Marks) b) Briefly describe the working of DHCP. (5 Marks)	(2 Marks) (5 Marks)	M1.05	U
IV	OR Discuss IPV4 and IPV6 addressing. (7 Marks)	(7 Marks)	M1.01	U
V	Explain about switch and hub in detail. (7 Marks)	(7 Marks)	M1.02	U
VI	OR What is meant by IEEE 802 standards and explain any three of them in detail. (7 Marks)	(7 Marks)	M1.05	U
VII	List all types of group scope in domain network. Explain about each type. (7 Marks)	(7 Marks)	M2.01	U
VIII	OR Why a firewall is needed in a network? Explain any two types of firewall. (7 Marks)	(7 Marks)	M2.04	U
IX	a) List all types of memory on routers. (2 Marks) b) Briefly explain any two memory on routers. (5 Marks)	(2 Marks) (5 Marks)	M3.01	U
X	OR Discuss the function of copy command in router configuration. (7 Marks)	(7 Marks)	M3.05	U
XI	Explain IOS in detail. (7 Marks)	(7 Marks)	M3.03	U
XII	OR Explain setting up of buffered logging and trap logging. (7 Marks)	(7 Marks)	M3.06	U
XIII	Compare and contrast IGP and EGP routing protocols. (7 Marks)	(7 Marks)	M4.04	U
XIV	OR List and explain the factors to be considered while choosing routing protocol. (7 Marks)	(7 Marks)	M4.05	U
