

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE, APRIL - 2026**

COMPUTER NETWORKS II

[Maximum marks: 75]

[Time: 3 Hours]

PART A

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

(9 x 1 = 9 Marks)

		Module outcome	Cognitive level
1	Give the format of IPV6 addressing.	M1.01	R
2	State the function of a repeater.	M1.02	R
3	Define Domain forest.	M2.02	R
4	List any two types of firewall.	M2.04	R
5	List any three router memory.	M3.03	R
6	List any one command used for router configuration.	M3.05	R
7	State Trap logging.	M3.06	R
8	What is dynamic routing?	M4.03	R
9	Describe about Route Control.	M4.06	R

PART B

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

(8 x 3 = 24 Marks)

		Module outcome	Cognitive level
1	Write any tree network control devices.	M1.02	U
2	Write a short note on IEEE 802.3 standards.	M1.04	U
3	Discuss the concept of work group users.	M2.02	U
4	Give a brief description on NTDS in active.	M2.06	U
5	Write a short note on switch.	M3.01	U
6	Give any three memory on routers.	M3.05	U
7	Illustrate on IOS Message Logging.	M3.06	U
8	Briefly explain Routing algorithm.	M4.03	U
9	Write a short note on Choosing the right protocol. a. metric b. Network size	M4.05	U
10	Describe about route Redistribution.	M4.06	U

PART C

Answer all questions. Each question carries seven marks

(6 x 7 = 42 Marks)

		Module outcome	Cognitive level
III	Briefly explain class-full addressing of IPV4. OR	M1.01	U
IV	Write a note on networking devices- a. HUB (2 Marks) b. SWITCH (2 Marks) c. ROUTER (3Marks)	M1.03	U
V	Write a note on domain controller. OR	M2.01	U
VI	a. List four types firewall. (4 Marks) b. Give brief description on packet filtering firewall. (3 Marks)	M2.04	U
VII	a. List different configuring modes of a Router. (3 Marks) b. Briefly describe any one configuration mode. (4 Marks) OR	M3.04	U
VIII	Explain configuring router with <copy> command.	M3.05	U
IX	a. What is configuration register? (4 Marks) b. State its purpose. (3 Marks) OR	M3.03	U
X	Explain the method of configuring routers clock.	M3.06	U
XI	List and explain common routing metric variables. OR	M4.05	U
XII	Discuss Configuring IP Routing Protocols on Routers.	M4.05	U
XIII	Give a note on TCP/IP Dynamic routing. OR	M4.02	U
XIV	Describe about the process involved in building and maintaining route table.	M4.06	U
