DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/ MANAGEMENT/COMMERCIAL PRACTICE, APRIL – 2024

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 *'one'* mark.

(**9 x 1 = 9 Marks**)

		Module Outcome	Cognitive level
1.	List any two Commonly used networking devices.	M1.02	R
2.	Expanded form of DHCP is……………..	M1.05	R
3.	Define Domain controller.	M2.01	R
4.	What is active directory?	M2.02	R
5.	Write the basic function of a router.	M3.03	R
6.	Specify use of bootstrap in routers.	M3.05	R
7.	List any one message logging mode.	M3.06	R
8.	Give an example of EGP.	M4.04	R
9.	List any two routing metric variables.	M4.03	R

PART-B

II. Answer any *'eight'* questions from the following. Each question carries *'three'* marks.

(**8 x 3 = 24 Marks**)

		Module Outcome	Cognitive level
1.	Briefly explain IPV6 addressing.	M1.01	U
2.	Differentiate between Switch and Hub.	M1.02	U
3.	Describe about work group users.	M2.02	U
4.	Define firewall .Explain any one type of firewall.	M2.04	U
5.	Describe about Router Interfaces.	M3.02	U
6.	Write any three Basic configuration commands of a router.	M3.04	U
7.	How to Configure the Router's Clock.	M3.06	U
8.	Give a brief description on disaster recovery.	M4.01	U
9.	Write a short note on IOS Authentication.	M4.02	U
10.	List any three merits of TCP/IP static routing.	M4.03	U

PART-C
Answer *'all'* questions from the following. Each question carries *'seven'* marks.

(6 x 7 = 42 Marks)

		Module Outcome	Cognitive level
III.	Explain the architecture of wireless network technologies Wi-Fi.	M1.03	U
	OR		
IV.	Explain the Working of DNS.	M1.05	U
V.	a) List the Physical and logical components of domain. b) Give a brief description on (i) Domain tree (ii) forest (3.5x2=7)	M2.02	U
	OR		
VI.	Explain the Setting of share permission and setting of security permission.	M2.03	U
VII.	Discuss router IOS upgrading through TFTP.	M3.05	U
	OR		
VIII.	Write a note on IOS message logging.	M3.06	U
IX.	a) List the types of memory in router. (4 Marks) b) Write a short note on any one router memory. (3 Marks)	M3.01	U
	OR		
X.	Illustrate Inter network Operating Systems.	M3.03	U
XI.	Compare and contrast Interior Gateway Protocols and Exterior Gateway Protocols.	M4.04	U
	OR		
XII.	a) Summarize route redistribution. (4 Marks) b) State any three route redistribution metric (3 Marks)	M4.06	U
XIII.	Give a detailed description on BGP protocol.	M4.03	U
	OR		
XIV.	Illustrate Route Selection procedure in routers.	M4.06	U

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