2110220240

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/ COMMERCIAL PRACTICE, NOVEMBER - 2023

FUNDAMENTALS OF NETWORK ADMINISTRATION

[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	Recall any two transmission medium.	M1.02	R
2	List any two types of networks.	M1.03	R
3	Label any two types of Ethernet.	M2.02	R
4	Name two parts of an IP Address.	M2.05	R
5	List any one Distance Vector Routing Protocol.	M3.05	R
6	Tell any two classification of routing algorithm.	M3.02	R
7	Which protocol is used to route between Autonomous Systems (AS)	M3.08	R
8	Port number of HTTP protocol is…………..	M4.01	R
9	………….is a unreliable transport layer protocol.	M4.02	R

PART B

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

(8x3=24)

		Module Outcome	Cognitive level
1	Explain the Basic Elements of Computer Networks.	M1.01	U
2	What is Hub in Computer Network?	M1.07	R
3	Illustrate the three IPv4 addressing types.	M2.06	U
4	Recall IPv4 Fragmentation.	M2.09	R
5	List the routing algorithm metrices.	M3.03	R
6	Outline Autonomous System (AS).	M3.04	U
7	What is Exterior Gateway Protocol (EGP).	M3.05	R
8	Explain port in transport layer.	M4.01	U
9	Interpret Man in the middle attacks.	M4.10	U
10	Name any three Security Terms.	M4.09	R

PART C

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

(6x7=42marks)

		Module Outcome	Cognitive level
III	Outline Bus and Star topologies.	M1.01	U
	OR		
IV	Compare LAN and WAN.	M1.03	U
V	Outline TCP/IP Model.	M1.06	U
	OR		
VI	Illustrate Network Switch.	M1.07	U
VII	Summarize CSMA.	M2.01	U
	OR		
VIII	Outline IPv4 Reserved Addresses.	M2.07	U
IX	Compare ARP and RARP.	M2.03	U
	OR		
X	Summarize the steps involved in the packet flow in IPv4 network.	M2.08	U
XI	Summarize the classification of dynamic routing protocol.	M3.05	U
	OR		
XII	Outline Border Gateway Protocol.	M3.08	U
XIII	Compare TCP and UDP.	M4.02	U
	OR		
XIV	Summarize File Transfer Protocol (FTP)	M4.05	U

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