

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/  
MANAGEMENT/COMMERCIAL PRACTICE, NOVEMBER – 2022**

**FUNDAMENTALS OF NETWORK ADMINISTRATION**

[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.	Name any two basic elements of computer network.	M1.01	R
2.	Tell any two network topology.	M1.01	R
3.	List any two random access techniques.	M2.01	R
4.	How many bits are used in IPV6?	M2.04	R
5.	Recall any two routing algorithm metrices.	M3.03	R
6.	Name the only one Exterior Gateway Protocol.	M3.05	R
7.	Label any one link state protocol.	M3.05	R
8.	Port number is.....bit size.	M4.01	R
9.	.....is a connection-oriented transport layer protocol.	M4.02	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.	What is Twisted Pair Cable?	M1.02	R
2.	Explain LAN?	M1.03	U
3.	What is ALOHA?	M2.01	R
4.	What is ARP?	M2.03	R
5.	Summarize the classifications of routing algorithms.	M3.02	U
6.	Show the architecture of Internet.	M3.04	R
7.	What is Interior Gateway Protocol (IGP)?	M3.05	R
8.	Summarize the Four Pillars of Network Security.	M4.08	U
9.	Explain Denial of Service attack.	M4.10	U
10.	Illustrate the functions of socket in transport layer.	M4.01	U

**PART-C**

**Answer all questions. Each question carries 'seven' marks.**

**(6 x 7 = 42 Marks)**

		Module Outcome	Cognitive Level
III.	Illustrate Packet Switched Network. <b>OR</b>	M1.04	U
IV.	Summarize OSI Model.	M1.05	U
V.	Summarize Connectivity devices (NIC, Hub & Modem) <b>OR</b>	M1.07	U
VI.	Illustrate Router.	M1.07	U
VII.	Summarize IP Address Classes. <b>OR</b>	M2.05	U
VIII.	Illustrate Subnet Mask.	M2.11	U
IX.	Outline CSMA/CD <b>OR</b>	M2.01	U
X.	Summarize Subnetting.	M2.11	U
XI.	Summarize Routing Information Protocol (RIP) <b>OR</b>	M3.06	U
XII.	Outline Open Shortest Path First (OSPF) protocol.	M3.07	U
XIII.	Summarize User Datagram Protocol (UDP) <b>OR</b>	M4.02	U
XIV.	Outline Hypertext Transfer Protocol (HTTP)	M4.03	U

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