

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

COMPUTER NETWORKS - I

[Maximum marks: 75]

(Time: 3 Hours)

PART A

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

(9 x 1 = 9 Marks)

		Module outcome	Cognitive level
1	Mention the type of network used inside a building	M1.06	U
2	Define topology	M1.04	R
3	Define frequency.	M2.02	R
4	ASK is.....	M2.05	R
5	Define Switch	M3.05	R
6	Optical fiber cables transmits signals in the form of	M3.01	R
7	Define bit rate	M2.03	R
8	Mention any one network layer protocol.	M4.04	R
9	Define Protocol	M4.01	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	Explain the components of communication	M1.01	U
2	Briefly describe LAN and WAN	M1.06	R
3	Differentiate Analog and Digital signals	M2.01	U
4	Describe the term Phase.	M2.02	R
5	List the advantages of Optical fiber cables	M3.01	R
6	Compare serial and parallel transmission modes.	M2.04	U
7	Explain bus topology with figure	M1.04	U
8	Briefly describe about UDP	M4.02	U

9	Explain about microwaves	M3.02	U
10	Discuss about FTP	M4.05	U

PART C

Answer all questions. Each question carries seven marks.

(6 x 7 = 42 Marks)

		Module outcome	Cognitive level
III	Explain the different data flow methods. OR	M1.03	U
IV	Explain client server and peer to peer	M1.07	U
V	Explain PCM OR	M2.05	U
VI	Briefly describe transmission impairments.	M2.03	U
VII	Explain twisted pair cables with figure. OR	M3.01	U
VIII	Explain virtual circuit network	M3.04	U
IX	List the layers in ISO-OSI Model. Explain functions of data link layer. OR	M4.01	U
X	Compare connection oriented and connectionless services.	M4.02	U
XI	Discuss about radio waves OR	M3.02	U
XII	Explain propagation modes of optical fiber cables.	M3.01	U
XIII	Explain IPv4 OR	M4.04	U
XIV	Define subnets. Discuss its advantages and disadvantages.	M4.06	U
