

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/  
MANAGEMENT/COMMERCIAL PRACTICE, APRIL – 2025**

**COMPUTER COMMUNICATION AND NETWORKS**

[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.	Define protocol.	M1.01	R
2.	What is a multipoint connection?	M1.02	R
3.	-----refers to information that has discrete states.	M2.01	R
4.	Name any two waves used for wireless transmission.	M2.02	R
5.	What is the address space of IPv4?	M3.01	R
6.	In UDP data packets are called-----	M3.05	R
7.	Name any two application layer protocols.	M4.03	R
8.	List two remote logging protocols.	M4.03	R
9.	The application layer program which maps a name to address in the Internet is.....	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.	List the layers in ISO OSI networking model.	M1.03	R
2.	Compare LAN and WAN.	M1.02	U
3.	Draw the TCP/IP protocol suite.	M1.05	R
4.	Describe the causes for transmission impairment.	M2.01	U
5.	Explain CSMA protocol.	M2.05	U
6.	Draw the IPv4 datagram format.	M3.01	R
7.	Write any three applications of UDP.	M3.05	R
8.	Describe the components in the Electronic Mail architecture.	M4.03	R
9.	Explain the peer-to-peer paradigm.	M4.02	U
10.	Describe about static and dynamic web documents.	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.	Distinguish between simplex and duplex communication. <b>OR</b>	M1.01	U
IV.	List the different networking topologies. Describe the features of any two.	M1.02	R
V.	List the various guided transmission media. Describe the features of any two. <b>OR</b>	M2.02	U
VI.	Summarize IEEE 802 project.	M2.06	U
VII.	Describe link state routing algorithm. <b>OR</b>	M3.03	U
VIII.	List the various transport layer services. Explain any two.	M3.04	U
IX.	Explain different types of HTTP connections. <b>OR</b>	M4.03	U
X.	Describe SSH protocol.	M4.02	U
XI.	Describe stop and wait protocol. <b>OR</b>	M2.04	U
XII.	List the data link layer services and describe any two of them.	M2.03	U
XIII.	Outline the TCP segment format with a neat diagram. <b>OR</b>	M3.05	R
XIV.	Explain any three network layer services.	M3.01	U

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