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PRESIDENCY UNIVERSITY

BENGALURU

Mid - Term Examinations - March 2026

Date: 13-03-2026

Time: 09.30am to 11.00am

School: SOIS	Program: BCA		
Course Code: CSA2502	Course Name: Computer Networks		
Semester: II	Max Marks: 50	Weightage: 25%	

CO - Levels	C01	C02	C03	C04
Marks	26	24	-	-

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks.

5Q x 2M=10M

1	Define a computer network and mention any two of its uses.	2 Marks	L1	C01
2	What is the role of the Application Layer in the OSI model?	2 Marks	L2	C01
3	State any two differences between TCP and UDP.	2 Marks	L2	C01
4	What is an IP address? Mention its purpose.	2 Marks	L1	C02
5	What is routing in computer networks?	2 Marks	L2	C02

Part B

Answer the Questions.

Total Marks 40M

6.	a.	Explain the OSI reference model with neat diagram and functions of each layer.	10 Marks	L2	CO1
Or					
7.	a.	Describe TCP connection establishment using three-way handshaking.	10 Marks	L2	CO1

8.	a.	Explain the working of DNS with a suitable example.	10 Marks	L2	CO1
Or					
9.	a.	Discuss UDP as a transport layer protocol. Mention its features and applications.	10 Marks	L2	CO1

10.	a.	Explain IPv4 addressing and IPv4 datagram format.	10 Marks	L3	CO2
Or					
11.	a.	Describe Network Address Translation (NAT) and its advantages.	10 Marks	L2	CO2

12.	a.	Explain Link State routing algorithm with an example.	10 Marks	L3	CO2
Or					
13.	a.	Explain Distance Vector routing algorithm and compare it with Link State routing.	10 Marks	L4	CO2