

ROLL NO. _____

ENROLLMENT NO. _____

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
SCHOOL OF ENGINEERING SCIENCES & TECHNOLOGY
JAMIA HAMDARD

Even Semester Examination 2023
BTCSE MOOCS 1
COMPUTER NETWORKS AND INTERNET PROTOCOL

TIME: 3 HRS

MAXIMUM MARKS: 75

Note: Do not write anything on paper except Roll No. & Enrollment No. Use of mobile phone is not allowed. Please follow proper numbering while answering the questions Proper steps are required to be specified for all questions

SECTION A

*All questions of Section A are compulsory (7*5)*

S.NO	QUESTIONS	MARKS	CO	BL
Q1.	Give the difference between OSI Model and TCP/IP Model.	5	CO2	L3
Q2.	Explain HTTP. What are the types of messages in HTTP transaction?	5	CO3	L2
Q3.	Which protocol supports electronic mail on the internet? Explain in brief.	5	CO2	L1
Q4.	Write a short note on DNS and Email.	5	CO1	L4
Q5.	A network on the internet has a subnet mask of 255.255.240.0. What is the maximum number of hosts it can handle?	5	CO4	L5
Q6.	DNS uses UDP instead of TCP. If a DNS packet is lost, there is no automatic recovery. Does this cause a problem, and if so, how it is solved?	5	CO5	L6
Q7.	Explain the difference between circuit Switching and packet Switching.	5	CO4	L3

SECTION B

*Answer any 4 questions in Section B (4*10)*

S.NO	QUESTIONS	MARKS	CO	BL
Q1.	(a) Discuss the functions of data link layer in a computer network. (b) Describe the role of network layer and transport layer in TCP/IP model.	10	CO3	L2
Q2.	What is SNMP? Explain the components and the messages in SNMP.	10	CO3	L3
Q3.	Explain the difference between intra domain routing protocols and inter domain routing protocols in details using examples and scenarios.	10	CO1	L1
Q4.	Explain Address Resolution Protocol and its components in detail.	10	CO4	L4
Q5.	What are the different Channel Access Protocols? Explain each in detail.	10	CO5	L5
Q6.	How is Flow and Congestion Control ensured at the Transport layer? Explain the techniques for the same.	10	CO2	L6

BLOOMS TAXANOMY LEVELS (BL)

1-REMEMBERING, 2-UNDERSTANDING, 3-APPLYING, 4-ANALYSING,
 5-EVALUATING, 6-CREATING