R18

Code No: 155AN

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech III Year I Semester Examinations, January/February - 2023
COMPUTER NETWORKS
(Common to CSE, CSBS, CESE, CSE(AIML), CSE(DS), CSE(IOT))

Time: 3 Hours   Max. Marks: 75

Note: i) Question paper consists of Part A, Part B.
ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.
iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART – A

(25 Marks)

1.a)	What is ARPANET?	[2]
b)	Write about Co-axial cable transmission media?	[3]
c)	What is framing?	[2]
d)	What are the advantages of sliding window protocol?	[3]
e)	What is non-adaptive routing?	[2]
f)	What is meant by congestion?	[3]
g)	What is the function of transport layer?	[2]
h)	What is UDP?	[3]
i)	What is the function of application layer?	[2]
j)	What is DNS?	[3]

PART – B

(50 Marks)

2.	Explain the TCP/IP reference model.	[10]
	OR	
3.	Explain about fiber optics transmission media.	[10]
4.	Explain the stop-and-wait protocol.	[10]
	OR	
5.	Explain about wireless LAN.	[10]
6.	Explain the shortest-path routing algorithm.	[10]
	OR	
7.a)	Explain the IPV4 header.	
b)	What is packet fragmentation?	[5+5]
8.	Explain the elements of transport layer.	[10]
	OR	
9.	Explain the TCP transmission policy.	[10]
10.	Explain about HTTP.	[10]
	OR	
11.	Explain about streaming audio.	[10]

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