DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE Winter Examination – 2022

Course: B. Tech. Branch: Artificial Intelligence and Data Science Semester: V
Subject Code & Name: BTAIC501 Computer Network and Cloud Computing
Max Marks: 60 Date: 28.01.2023 Duration: 3 Hr.

Instructions to the Students:

- 1. All the questions are compulsory.
- 2. The level of question/expected answer as per OBE or the Course Outcome (CO) on which the question is based is mentioned in () in front of the question.
- 3. Use of non-programmable scientific calculators is allowed.
- 4. Assume suitable data wherever necessary and mention it clearly.

		(Level/CO)	Marks
Q. 1	Solve Any Two of the following.		12
A)	What is Computer Network? Explain uses of Computer Network	BL2 & CO1	6
B)	Explain ISO OSI Model?	BL2 & CO1	6
C)	Define the Network Topology. Enlist the different types of Network	BL2 & CO1	6
	Topologies. Explain any two network topologies with neat diagram.		
Q.2	Solve Any Two of the following.		12
A)	What do you mean by network Protocol and How it works	BL3& CO2	6
B)	Explain TCP/IP Model?	BL2& CO2	6
C)	Explain Carrier Sense Multiple Access and Collision Avoidance	BL3& CO2	6
	(CSMA/CA) Protocol.		
Q. 3	Solve Any One of the following.		12
A)	Explain services provided by transport layer.	BL3& CO3	6
B)	Explain TCP and UDP Protocol.	BL2& CO3	6
C)	Explain DNS.	BL3& CO3	6
Q.4	Solve Any Two of the following.		12
A)	Define Cloud Computing with Example of Service Providers.	BL1& CO4	6
B)	Explain Advantages of Cloud Computing.	BL2& CO4	6
C)	Explain Challenges and Risks in Cloud Computing.	BL3& CO4	6
0.5	Solve Any One of the following		12
Q. 5	Solve Any One of the following.	DI 20 COT	
A)	Explain Cloud Deployment Models with suitable diagrams.	BL3& CO5	6
B)	Explain Cloud Services with Examples.	BL3& CO5	6
C)	Write in Details about Data Centre Components	BL3& CO5	6