

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

End Semester Examination – Summer 2019

Course: B. Tech in Information Technology

Sem: IV

Subject Name: Internetworking Protocol

Subject Code: BTITC404

Max Marks: 60 Marks

Date: 22/05/19

Duration: 3 Hr.

Instructions to the Students:

1. Solve **ANY FIVE** questions out of the following.
2. The level 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 the following.		
A) Explain four levels of addresses or addressing modes used in an internet employing the TCP/IP protocols.	CO3	6
B) Write a short note on MILNET, CSNET, NSFNET and ANSNET.	CO4	6
Q.2 Solve the following.		
A) What is Bluetooth? Explain different types of networks in Bluetooth.	CO4	6
B) How packet switching is performed at the network layer? Explain connection oriented and connectionless packet switching.	CO4	6
Q. 3 Solve Any One of the following.		
A) Demonstrate IP packets forwarding based on destination address and forwarding based on label.	CO3	12
B) With the help of neat and well labeled diagram explain how checksum calculation is performed at network layer? Evaluate with suitable example checksum calculation at sender side and at receiver side.	CO4	12
Q.4 Solve the following.		
A) Explain Dijkstras Algorithm for formation of Shortest Path Tree.	CO4	6
B) Illustrate Distance vector Routing with suitable example.	CO4	6
Q. 5 Solve the following.		
A) Explain following transport layer services: i) Process to process communication ii) Socket Address	CO2	2X3
B) Elaborate Queuing in UDP with neat labeled diagram.	CO2	6



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Q. 6 Solve the following.

A) Draw and explain TCP segment format.

CO1 6

B) Enlist different features provided by TCP.

CO1 6

*** End ***



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