

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Supplementary Winter Examination – 2023

Course: T.Y.B. Tech. Branch : Computer Science & Engineering/CE Semester : 6th

Subject Code & Name: Computer Network BTCOC602_Y23

Max Marks: 60

Date: 18/01/2024

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 a computer network? Enlist four uses of computer network.	CO1 Understand	6
B) Explain network software with respect to protocol hierarchy and design issues for layer.	CO1 Understand	6
C) State and explain the functionalities of all layers in ISO-OSI Model.	CO1 Understand	6
Q.2 Solve Any Two of the following.		12
A) Explain in brief 802.11 architecture and protocol stack.	CO2 Understand	6
B) Write a short note on i)Bluetooth Architecture ii)RFID Technology	CO2 Application	6
C) State and explain Bluetooth Architecture	CO2 Understand	6
Q. 3 Solve Any Two of the following.		12
A) What is framing in network? Explain byte stuffing framing techniques with suitable example.	CO3 Understand	6
B) Illustrate the service provided to the network layer by the data link layer.	CO3 Understand	6
C) Describe Error Detection and Correction.	CO3 Apply	6
Q.4 Solve Any Two of the following.		12
A) Illustrate the service provided to the network layer by the data link layer.	CO4 Understand	6
B) What is Quality of Service? Mention various factors of QOS.	CO4 Apply	6
C) Compare IPV4 / IPV6 protocols.	CO4 Apply	6
Q. 5 Solve Any Two of the following.		12
A) What is cryptography? Explain the working principle of public key cryptography with suitable diagram.	CO5 Understand	6
B) Write a short note on DNS 2) DDNS	CO5 Application	6
C) Compare FTP and TFTP protocols.	CO5 Apply	6

***** End *****

The grid and the borders of the table will be hidden before final printing.