

Day & Date: Friday 19/09/2025

Time: 10:30 To 11:30

Max Marks- 25

Instructions: 1) All questions are compulsory.

2) Figures in rounded () brackets within the question, indicate the scheme of marking for respective part of the question, whereas, figures in the first right column indicate total marks for that whole question.

3) CO is the index number of the Course Outcome statement.

4) The Bloom's taxonomy level (BL) for 1,2,3,4,5 and 6 is remember, understand, apply, analyze, evaluate and create respectively.

5) Assume suitable data if necessary.

6) Use of non-programmable calculators is allowed

Attempt any three questionsMarks BT
Level COs

Q.1 A Explain the functionality of NIC card 6 2 3

B 1. Find the error, if any, in the following IPV4 address 6 3 3

a) 10.10.1.1111 [1M]

b) 109.45.045.252 [1M]

c) 252.253.254.256 [1M]

d) 255.255.255.255/8 [1M]

2. Convert the following IPV4 address from dotted-decimal to binary notation.

a) 111.56.45.78 [1M]

b) 221.34.7.82 [1M]

C Illustrate the TCP/IP model, explaining the role of each layer. [Figure 2, Explanation 4M] 6 3 3

D Explain components of EMAIL. [Each component 2M] 6 2 4

Q.2 Attempt any One question

A Illustrate concept of Transmission Media in networking. [Figure 2, Explanation 5M] 7 3 4

B Describe File Transfer Protocol. 7 3 4

