

Anjuman Islam Janjira Degree College of Science Murud-Janjira, Raigad-402401 Affiliated to University of Mumbai As per NEP 2020	
Class: -S.Y.CS	Subject: - Major Computer Network
Semester:- IV	Code:-
Exam Event:- Summer 2026 (FH)	Marks: - 30
Date: - 05/03/2026	Duration: - 01:00 Hour

- N.B. –**
- 1 – All questions are compulsory.
 - 2 – All questions have internal choice.
 - 3 – Figures to the right indicate full marks.



Q1. Answer the following question. (Any 2 out of 4)

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- 1) Explain different types of computer networks
- 2) Compare and contrast CSMA/CD and CSMA/CA
- 3) Discuss any three network topologies with neat diagrams
- 4) Describe in detail the OSI Reference Model and describe the functions of each layer.

Q2. Answer the following question. (Any 2 out of 4)

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1. Explain IPv4 addressing format and discuss the concept of subnetting.
2. Describe IPv4 and IPv6 addressing formats.
3. Write about SMTP, POP3 and IMAP.
4. Unicast Routing Protocols Overview

Q3. Answer the following question. (Any 2 out of 4)

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- 1) Compare the OSI model and TCP/IP model
- 2) Write a short note data and signal
- 3) Explain Application Layer & Client-Server Architecture
- 4) What is Distance Vector Routing and also describe about Link State Routing