



Department of Computer Science & Engineering
Chitkara University Institute of Engineering & Technology
(Accredited by NAAC with Grade 'A+')

Ref. No: CUIET/CSE/ACAD/2023/69

Date: 03-03-2023

NOTICE

Test Type: **ST**

Test No: 1

Total Marks: 40

Duration: 90min

Name of Course Coordinator: **Dr. Amanpreet Kaur**

Course Code.: **CS156**

Course Title: **Introduction to Computer Networks**

Day: **Monday**

Date: 13th March, 2023

Time: **9:00AM**

Mode: **Offline**

Programme & Semester: **B.E.(CSE) & 4th Sem**

Syllabus for Test:

Introduction: Uses of Computer Networks, Network Hardware Topologies, Collision Domain, Broadcast Domain Reference Models: Seven-Layer OSI architecture, Concepts of Layers, Protocols and Layer interfaces and PDU, TCP/IP Reference Model, Comparison of OSI and TCP/IP reference models, Physical Layer: Transmission Media (Cable Media), Wireless Media (Cellular Telephone, Satellite Networks) Types of Connecting Devices (Hubs, Switches, Routers)
Data Link Layer: Types of Errors, Redundancy, Error Detection and Correction, CRC, Check Sum, Hamming code & Distance, Multiple Access Protocols: - Random Access Protocols-ALOHA, CSMA, CSMA/CA, CSMA/CD Channelization Protocols: FDMA, TDMA, CDMA, Controlled Access Protocols: Reservation, Polling, Token Passing, Piggybacking, Noiseless Channels: Elementary data link protocols: Stop and Wait, Noisy Channel: Stop and Wait, Automatic Repeat Request, go-back-n, selective repeat.

Format of Assessment:

No. of Questions: **5 MCQs - 1 marks, 5 Questions - 3 marks, 2 Questions - 5 marks, and 1 Question - 10 marks**

Remarks, if any:

Signature of Course Coordinator:.....Dr. Amanpreet Kaur.....