



UTTARAKHAND OPEN UNIVERSITY, HALDWANI (NAINITAL)
उत्तराखण्ड मुक्त विश्वविद्यालय, हल्द्वानी (नैनीताल)

MCA-16/MCA-17
2ND YEAR 3RD SEMESTER ASSIGNMENT

Session - 2017-18, Summer Last Date of Submission: 31st October 2017

Session - 2017-18, Winter Last Date of Submission: 30th April 2018

Course Title: Data Communication and Computer Networks

Course Code: MCA-19

Maximum Marks: 30/20

Section 'A' contains 08 short answer type questions of 4/2.5 marks each. Learners are required to answers 4 questions only. Answers of short answer-type questions must be restricted to 250 words approximately.

1. How OSI model work? Explain each layer.
2. What is network topology explain their type.
3. How analog signal converted into digital signal explain different method.
4. Write short note on:
 - a. Modem
 - b. Router
 - c. HUB
 - d. Switch
5. What are the advantages and disadvantages of circuit switching?
6. Explain the concept of message switching.
7. What is Domain Name System? Explain its significance.
8. What is FTP? What are its application.

Section 'B' contains 04 long answer-type questions of 7/5 marks each. Learners are required to answers 02 questions only.

1. Explain different media that used for data transmission in computer network.
2. Draw the larger architecture of TCP/IP protocol suite with explain it briefly.

3. Explain sliding windows protocol for congestion control.
4. (a) Define Routing. What are the different goals of routing algorithm?
(b) Explain distance vector routing & link state routing.

