



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

MCA 1<sup>ST</sup> YEAR 1<sup>ST</sup> SEMESTER ASSIGNMENT

*Last Date of Submission: 15/01/2016*

**Course Title: Fundamentals of Networking and Web Technology**

**Course Code: MCA-04**

**Year: 2015-16**

**Maximum Marks: 40**

Section 'A' contains 08 short answer type questions of 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. What are the advantages and disadvantages of optical fibers?
2. What are the difference between circuit switching and packet switching?
3. What is an IP address? Discuss the function of domain name system.
4. Compare OSI and TCP/IP network reference models.
5. What is an array in Java script? Explain with the help of example.
6. What are the different types of networking devices? Explain.
7. Differentiate between connection oriented and connectionless services.
8. Write short not on SAN(Storage area network).

Section 'B' contains 04 long answer-type questions of 10 marks each. Learners are required to answers 02 questions only.

1. What is protocol? Why is it required? Explain with example.
2. What are the different modes of communication? Explain with example.
3. Describe the functions of various layers of the TCP/IP model.
4. What do you mean by network topology? Discuss briefly each type of network topology.