



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

BCA 3RD YEAR 5TH SEMESTER ASSIGNMENT

Last Date of Submission: 15/01/2016

Course Title: Data Communication & Computer Networks

Course Code: BCA-14

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. Define computer network. What are the goals of computer networks?
2. What is the difference between circuit switching and packet switching?
3. What are the responsibilities of the network layer in the TCP/IP model?
4. What is looping problem in network? How can it be avoided?
5. What do you mean by network security? How can you protect a computer connected to the internet?
6. What is extranet? What is the advantage of extranet over internet?
7. What is NIC? Explain.
8. What are the difference between guided media and unguided media?

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

1. Explain the characteristics of data communication system.
2. Explain the components of data communication system.
3. What is network topology? Explain the types of topology.
4. Explain the various layers of the OSI model.