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

BCA-16/BCA-11 3ʀᴅ YEAR 5ᴛʜ SEMESTER ASSIGNMENT

Last Date of Submission: 30/04/2017

Course Title: Data Communication & Computer Networks

Course Code: BCA-14

Year: 2016-17   **Maximum Marks: 30/40**

Section 'A' contains 08 short answer type questions of 4/5 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 is advantage of guided media ?
2. Explain Piconet and Scattemet.
3. Explain Ground propagation model.
4. List types of firewall. Explain working of Firewalls.
5. Explain basic features of Ethernet.
6. List and explain working of Physical layer.
7. What is the difference between Half duplex and Full duplex mode of communication.
8. What is an IP? Explain IP addressing with classes.

Section 'B' contains 04 long answer-type questions of 7/10 marks each. Learners are required to answers 02 questions only.

1. Explain various types of network topologies. Differentiate them.
2. Explain working of TCP and UDP as a transport layer protocol. List differences between these two protocols.
3. Explain working of Fibre optic. Also explain single mode and multimode communication mechanism.
4. Explain LAN, WAN and MAN.