



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

MCA-II 3rd YEAR 5<sup>th</sup> SEMESTER ASSIGNMENT

*Last Date of Submission: 15 Jan., 2014*

**Course Title: Data Communication and Computer Networks**      **Course Code: MCA-19**  
**Year: 2013-14**      **Maximum Marks: 40 Marks**

**Section 'A' contains 08 short answer type questions of 5 marks each. Learners are required to answer 4 questions only. Answers of short answer-type questions must be restricted to 250 words approximately.**

1. Explain the History of internet.
2. Write working of data link layer.
3. Write a short on SMPT and WDM
4. Difference between analog and digital signals
5. Explain briefly the concept of digital transition.
6. Explain stop and wait ARQ
7. What do you understand by circuit switching and telephone network?
8. Difference between Connecting LANs and Virtual LANs

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

1. Explain OSI model in detail
2. Explain the concept of Signal measurements like throughput and PPP stack
3. Explain the Client –Server model in detail. What do you understand by socket interface?
4. Briefly explain the concept of DNS, IPV6 and FTP.