

## **Paper 6 : COMPUTER NETWORKING & INTERNET TECHNOLOGY - 2011**

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**Note :** All questions are compulsory. Attempt any two parts from each question. All questions carry equal marks.

1. (a) Give the definition of computer network. Draw and explain the architectures of LAN, MAN, WAN and Internetwork.  
(b) What are protocols and standards and why are they made ? Give examples of each.  
(c) Discuss point to point and multipoint configurations with examples.
2. (a) Outline the difference between OSI and TCP/IP reference models. Which model was developed earlier ?  
(b) Describe OSI reference models. Routing is the work of which layer ?  
(c) Out of ARPANET and NSFNET which network was developed earlier ? Describe novel network.
3. (a) What is the difference between serial and parallel data transmissions ? Give example of each.  
(b) Modem is a DTE or DCE device ? Explain few modem standards. <http://www.prsunotes.com>  
(c) What is the difference between analog signal and digital signal ? How digital data is carried over long distance ?
4. (a) Internet is based on client-server model or master-slave model ? Explain the architecture of internet.  
(b) C.G.I. is a language or technology ? Explain the meaning of Common, Gateway and Interface in C.G.I. Give suitable example.  
(c) Write a HTML program to create two forms on a webpage.
5. (a) Write a java applet program to display the word "TEST" on (10100) co-ordinates of screen. Add this applet in to a webpage.  
(b) Password validation is possible in javascript or not ? Give reason. Write a javascript program to display current data.  
(c) What is Web-Server ? Explain with example the publishing of a website.