

**BACHELOR OF COMPUTER APPLICATIONS  
(PRE - REVISED )****Term-End Examination**

June, 2013

**CS-68 : COMPUTER NETWORKS***Time : 2 hours**Maximum Marks : 60*

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*Note : Question No 1. is compulsory. Attempt any three questions from the rest.*

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1. (a) Illustrate simplex, half duplex, and full duplex modes with the help of example for each. Explain which mode is used for TV communication. 6
- (b) In twisted pair cable why wires are twisted ? Briefly explain two categories of twisted pair cables, with their advantages. 6
- (c) What is meaning of bit rate in communication ? Explain difference between bit rate and band rate with the help of an example. 4
- (d) What is congestion ? Why does it happen ? 4
- (e) What is multiplexing ? How does time division multiplexing work ? 3
- (f) What is Telnet ? Explain briefly, how does it work ? 4
- (g) What is repeater ? Why they are used at physical layer of the network ? 3

2. (a) What is router ? Explain briefly two routing protocols. 5
- (b) What is Token Bus Protocol ? How it is different from Token Ring Protocol ? 5
3. (a) Explain operation of a selective repeat protocol with the help of a diagram. 5
- (b) What is ISDN ? Explain briefly two applications of ISDN. 5
4. (a) Differentiate between followings : 6
- (i) Circuit Switching and Packet Switching.
- (ii) Star Topology and Ring Topology.
- (b) List and explain services provided by *data link layer*. 4
5. (a) What is OSI model ? Explain briefly differences between OSI model and TCP/IP model. 6
- (b) Explain briefly how ATM protocol works. 4
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