

**BACHELOR OF COMPUTER APPLICATIONS  
(PRE - REVISED)****Term-End Examination****December, 2013****CS-68 : COMPUTER NETWORKS***Time : 2 hours**Maximum Marks : 60*

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**Note :** *There are five questions in this paper. Question No 1 is compulsory. Answer any three questions from the rest*

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1. (a) What is need of DNS ? When we can use IP address directly ? Explain briefly. 4
- (b) What is digital signal ? How it is different from analog signals ? Explain with the help of suitable diagram. 5
- (c) What is baseband communication ? Explain how broadband communication is different from base band communication. 4
- (d) What is the purpose of the following fields in TCP packet header ? 4
  - (i) Time to live
  - (ii) Sequence number
- (e) Explain working of sliding window protocol with help of an example. 4
- (f) What is MAN ? Explain briefly how it is different from LAN and WAN. 3

- (g) Which mode : simplex, half duplex, or full duplex is used by the following and why ? 6
- (i) A TV broadcast
  - (ii) Mobile SMS
  - (iii) Teleconferencing
  - (iv) Walkie-Talkie communication.
2. (a) Explain the two basic types of ISDN interfaces. 5
- (b) Explain which OSI layer is responsible for the followings : 5
- (i) Crash Recovery
  - (ii) Email
  - (iii) Error control
  - (iv) Compression
  - (v) Packet Fragmentation
3. (a) Explain the followings in relation to ATM Network.
- (i) Compare ATM layered architecture with OSI model. 2
  - (ii) Two interfaces supported by ATM 3
- (b) Briefly explain Remote Procedure Call (RPC). 5
4. (a) What is a bridge ? Explain two types of bridges. 5
- (b) Explain TCP/IP reference model briefly. 5

5. Write short notes on followings :

2½x4=10

- (a) Frame Relay
  - (b) User Data Protocol (UDP)
  - (c) Switching Hubs
  - (d) ATM cell
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