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CS-68

BACHELOR IN COMPUTER APPLICATIONS

02302

Term-End Examination

June, 2010

CS-68: COMPUTER NETWORKS

Time: 3 hours

Maximum Marks: 75

Note: Question one is compulsory. Answer any three from the rest.

- 1. (a) Which transmission mode (simplex, half duplex for full duplex mode) can be compared to the following:
 - A conversation through a mobile phone
 - Television/Radio
 - Conversation on Walky Talky
 - (b) Which OSI layer is responsible for the following:
 - End to End reliable communication service
 - WWW
 - Fragmentation of a packet
 - Error control
 - Compression/Decompression

P.T.O.

Write the name of topology type, which 3 matches the following characteristics. New devices can be added easily Failure of a device cause a system failure Control is done through a central device Differentiate between the followings through examples. Baseband broadband and communication Analog and Digital signal Circuit switching and packet switching Explain the operation of a selective repeat 5 protocol with the help of a diagram. Draw the diagram for Header format of 6 user-network interface of ATM network. Also explain the use of each field in it Explain the operation of a switch with the 4 help of a diagram.

2.

Explain how the notion of multiplexing can

be applied on physical and transport layer?

Briefly describe three applications of ISDN.

5

6

- 3. (a) Draw the TCP/IP network architecture. 10
 Explain the functionalities of the various layers and also list its important protocols.
 - (b) Explain the concept of frame relay. 5
- 4. (a) List and explain features of different ISDN 5 interfaces.
 - (b) List and explain services provided by Data 5 Link layer.
 - (c) Explain the concept of signalling used in ISDN.
- 5. (a) Explain the concept of a remote procedure 7 call with the help of a diagram
 - (b) Explain the characteristics of twisted pair cable.
 - (c) List and explain factors for occurrence of congestion in a network.