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COEP
ESE April 2013
Operating System & Networking
Class: B.Tech(Instrumentation Engineering)

Year: 2012-13

Semester: II
Max.Marks: 50

All questions are compulsory.
Figures to right indicate full marks.

1. a) Find maximum data rate of a channel if 4
 - a) bandwidth is 3000 Hz and voltage levels are 4
 - b) bandwidth is 3000Hz and signal to noise ratio is 20 dB.
2. Write a note on Fiber Optics cable. 4
3. Write in detail about OSI model. 4
4. Explain different methods of framing in Data link layer. 4
5. Write a note on CRC 4
6. Explain Go back N silding window protocol. 4
7. Write note on any two of following 6
 - a) HDLC b) Bridges c) DQDB d) Token ring
8. Compare Virtual circuit and Datagram subnets. 4
9. Write note on any two of the following 6
 - a) Producer Consumer Problem b) Real time scheduling
 - c) Automating backup in Linux d) File systems
10. Answer the following 10
 - i) In TCP/IP model, the transport layer has two types of protocols defined.
 - a)TCP b) _____
 - ii) Remote controls used on TV, VCRs use _____ waves for communication.
 - iii) In _____, the frequency spectrum is divided among the logical channels, with each user having exclusive possession of some frequency band.
 - v) Two ways of interrupt handling are a) polling b) _____
 - vi) Copying information into faster storage ssystem is called _____.
 - vii) ----- is a program in execution
 - viii) TELNET is a _____ layer protocol.
 - ix) Communcating over a telephone uses _____ switching.
 - x) The _____ type of satellite has lowest round trip delay time.
 - a)GEO b) MEO c) LEO