



CBCS SCHEME

17CS52

Fifth Semester B.E. Degree Examination, Jan./Feb. 2021 Computer Networks

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Many networks, including internet, provide more than one transport layer protocol. When you develop an application you need to choose one of the available transport layer protocol and consider various parameters. Explain the parameters and protocols to be considered while designing an application. (08 Marks)
- b. True or False :
- i) Processes on two different systems communicate with each other by exchanging messages across the computer networks
 - ii) A client server architecture achieves perfect security
 - iii) Socket is a hardware interface through which a process sends message into, and receives messages from the network
 - iv) No data loss is tolerated in multimedia applications such as conversational audio/video
 - v) Developing a new network application for the internet often requires one to decide whether to choose UDP or TCP. (05 Marks)
- c. With a simple sketch, explain how SMTP operate when A send mail to B where mail server of A and B are different. Show the sequence of events. (07 Marks)

OR

- 2 a. HTTPRequest message
GET/somedir/page.html HTTP/1.1
HOST : www.someschool.edu
Connection : close
User_agent : Mozilla/5.0
Accept_language : fr
Interpret the meaning of each line in few sentences. (05 Marks)
- b. Explain meaning of each line of
HTTPResponse message given below :
HTTP/1.1 200 ok
Connection : close
Date : Tue, 09 Aug 2011 15 : 44 : 04 GMT
Server : Apache/2.2.3
Last modified : Tue, 09 Aug 2011 15 : 11 : 03 GMT
Content_Length : 6821
Content_type : text/html
(data data - - - - -). (07 Marks)
- c. What is the service provided by DNS system? Explain the meaning of root DNS server, Top Level Domain Servers (TLD), Authoritative DNS servers. Explain the meaning of the following DNS records
(relay1.bar.foo.com, 145.37.93.126, A)
(foo.com, mail.bar.foo.com, MX). (08 Marks)