1128
B.E. (Information Technology)
Fifth Semester
ITE-575: Internet and Web Technology

Time allowed: 3 Hours   Max. Marks: 50

NOTE: Attempt <u>five</u> questions in all, including Question No. I which is compulsory and selecting two questions from each Unit.

x-x-x

I.   Explain the following terms:-

a) Primary tasks in the OOA

b) Web site and Web server

c) Procedural and Object oriented languages

d) STL

e) Essential elements of World Wide Web

f) Types of proxy servers

g) Java EE

h) Client side scripting language

i) Subnet

j) Key elements of a protocol.   (10x1)

UNIT – I

II.   a) Explain the designing concepts of object oriented design methodology.

b) What kind of relationships can be shown in the use case diagrams? Explain each type with example.   (5,5)

III. a) What is the use of firewall? Explain different types of firewalls with their working details.

b) How MIME can be used in emails? Explain the different MIME types.   (5,5)

IV.   a) A block of address is granted to an organization and one of the addresses is 100.1.2.35/28. Find the block address, directed broadcasting address, total hosts and usable hosts in the block.

b) "VPN creates a network which is physically public but virtually private." Justify the statement and differentiate between the terms VPN and Proxy.   (5,5)

UNIT – II

V. a) How to create a link that goes to the top of a web page? Write down the Java script code to display current date and time.

b) What are the various ways to embed a CSS in html page? Is it possible to set specific colors for table borders'? If yes, write the HTML code for that.   (5,5)

VI. a) Explain the role of DOM in HTML.

b) Explain the architecture of the servlet.   (5,5)

VII. a) Explain the architecture of 'JDBC. Write down its code for to connect to a database and check username and password to login on a JSP page.

b) Write a short note on POJO. Explain its two frameworks   (5,5)

x-x-x