B.Sc General 6ᵗʰ Semester Examination , 2021(CBCS)

Subject: Computer Science

Course Title: Internet Technologies   Course Code: DSE-1B

FULL MARKS: 40   **Time: 2 Hours**

Answer any *eight* Questions: **5 X 8 = 40**

a) What is Dynamic web page? What are the advantages of Dynamic web pages?

b) Create a table using HTML.

c) Which HTML tag is used for setting the Background colour of a webpage? Explain with an example.

d) Illustrate the process of Form creation using HTML with an example.

e) What is client-side scripting? Differentiate between client-side and server-side scripting language.

f) Write down a program to calculate factorial of an integer in Javascript.

g) Illustrate Array list in Java along with some of its in-built methods.

h) What is JDBC? What is the utility of JDBC?

i) What is JSP request and JSP response?

j) "Java does not support Multiple Inheritance". Comment on the given statement.

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Subject: Computer Science

Course Title: Computer Networks   Course Code: DSE-1B

FULL MARKS: 40   **Time: 2 Hours**

Answer any *eight Questions*:   **5 X 8 = 40**

a) What do you mean by computer networks and network protocol?

b) Differentiate between OSI reference model and TCP/IP protocol suite.

c) Write down the functions of Application Layer of OSI reference model.

d) Discuss the working principle of SWITCH in Networking.

e) Discuss VPN in networking.

f) Explain any one Error Control technique of data .

g) Differentiate between virtual circuit and datagram approach of Network layer.

h) Explain the working principle of DNS.

i) Write a short note on SMTP.

j) Compare and contrast LAN, MAN and WAN.