MCA-04/PGDCA-04/M.Sc.IT-04

Fundamentals of Networking and Web Technology

1st Semester Examination June 2022

Time : 2 Hours   Max. Marks : 80

Note : This Paper is of Eighty (80) marks divided into two (02) Section A and B. Attempt the questions contained   in these sections according to the detailed instructions given there in.

Section-A

(Long Answer-type questions)

Note: Section 'A' contains Five (05) Long-answer type questions of Twenty (20) marks each. Learners are required to answer any two (02) questions only.

(2 x 20 = 40)

Q.1.   What do you understand by term physical topology and logical topology. Explain three most popular LAN topologies namely Bus, Ring and Star. Discuss the merits and demerits of each of these topologies.

P.T.O.

Q.2   Explain the OSI network model. How does it differ from TCP/IP model?

Q.3   What is coaxial and twisted pair cable? Compare coaxial cable with twisted pair cable in terms of bandwidth, cost and attenuation.

Q.4   What are the advantages of using CSS for an HTML document? How can you link an external style sheet to an HTML document? Explain how you can change the background colour of a web page using a style sheet.

Q.5   What is User defined Objects in JavaScript? Show the use of User defined objects in JavaScript with the help of an example.

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Section-B

(Short Answer-type questions)

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Note: Section 'B' contains Eight (08) Short-answer type questions of ten (10) marks each. Learners are required to answer any four (04) questions.

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(4 x 10 = 40)

P.T.O.

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Q.1   Explain the concept of Connectionless and Connection-Oriented Services.

Q.2   Explain the differences between Broadcast and Point-to-Point Networks.

Q.3   What are different classes of IP address? Explain through examples.

Q.4   Differentiate between bit rate, baud rate and bandwidth. When is the baud rate equal to bit rate?

Q.5   Write the difference between logical address and physical address. Also, name the layer at which these addresses are mapped in OSI model.

Q.6   Write short note on HTML, XML and Array.

Q.7   Describe the use of Hyperlink and image tags in HTML with the help of example.

Q.8   What is a cookie in the context of Java Script? Explain how a cookie can be set with the help of an example.

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