

11. List the relative advantages and disadvantages of bus, ring and star topologies.
12. Write in brief the basic difference between Built in Object and User Defined Object in JavaScript.
13. Why do we use XML ? Explain the various parts of XML.

MCA-04

December – Examination 2022

MCA Examination

**Fundamentals of Networking
and Web Technology**

Paper : MCA-04

Time : 3 Hours]

[Maximum Marks : 80

Note :- The question paper is divided into three Sections A, B and C. Write answers as per the given instructions.

Section-A

8×2=16

(Very Short Answer Type Questions)

Note :- Answer all questions. As per the nature of the question delimit your answer in one word, one sentence or maximum up to **30** words. Each question carries 2 marks.

1. (i) What are the different types of networking devices ?

- (ii) Name the topology used by FDDI.
- (iii) Which two layers of OSI model are absent in TCP/IP model ?
- (iv) Write two advantages and disadvantages of fiber optics cable.
- (v) How many bits are there in IPv4 addressing ?
- (vi) What is a Hypertext link ?
- (vii) Name the different types of Document Type Declaration (DTD).
- (viii) What is JavaScript ?

Section–B **4×8=32**

(Short Answer Type Questions)

Note :- Answer any *four* questions. Each answer should not exceed **200** words. Each question carries 8 marks.

- 2. What do you mean by Network Topology ?
Discuss briefly each type of network topology.
- 3. Describe the functions of various layers of the TCP/IP model.

- 4. Write the advantages of optical fibre over twisted pair and coaxial cable.
- 5. What is Internet ? Explain why Internet is called a 'network of networks'.
- 6. How do you create frames ? What is a frameset ?
- 7. Write in short about the control structure in JavaScript.
- 8. What is an array ? What is its use ?
- 9. Describe how the Web browser communicates with the web server.

Section–C **2×16=32**

(Long Answer Type Questions)

Note :- Answer any *two* questions. You have to delimit your each answer maximum up to **500** words. Each question carries 16 marks.

- 10. Discuss the functioning of a web server and web browser. Also give two examples of a web server and web browser.