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63/2 (SEM-4) MCA 4.3

2024

**COMPUTER SCIENCE AND
TECHNOLOGY**

Paper : MCA 4.3

(Web Programming Technologies)

Full Marks : 75

Pass Marks : 30

Time : Three hours

***The figures in the margin indicate
full marks for the questions.***

1. Choose the correct answer : $1 \times 5 = 5$

(i) Which of the following can read and render HTML web pages ?

(a) Server

(b) Head tag

(c) Web browser

(d) Empty

Contd.

- (ii) At which port number, simple network management protocol (SNMP) operates
- (a) 160
 - (b) 163
 - (c) 164
 - (d) 161
- (iii) Which of the following is not an HTML tag?
- (a) <select>
 - (b) <input>
 - (c) <textarea>
 - (d) <list>
- (iv) World Wide Web was invented by
- (a) Ted Nelson
 - (b) Tim Berners-Lee
 - (c) Linus Torvalds
 - (d) Robert E. Kahn
- (v) What does W3C stand for?
- (a) World Wide Web Consortium
 - (b) World Wide Website Consortium
 - (c) World Wide Website Community
 - (d) World Wide Web Community

2. Answer the following questions : **(any five)**
2×5=10

- (i) What are java applets?
- (ii) Write *any two* differences between HTML and CSS.
- (iii) Explain briefly about internet.
- (iv) What do you mean by web services?
- (v) What is JSF?
- (vi) What is gateway in web application?
- (vii) What do you mean by cipher text?

3. Answer the following questions : **(any five)**
5×5=25

- (i) What is IPv6? Explain.
- (ii) Write the differences between client-side programming and server-side programming.
- (iii) What is port and socket? Why do we need port and socket? Explain.
- (iv) Explain ODBC and JDBC.
- (v) What is email? Explain the architecture of email.
- (vi) What is mobile IP? Explain the components of mobile IP.

4. Answer the following questions : **(any two)**
10×2=20

(i) Explain the layers of TCP/IP. What are active and passive open connections? How UDP is different from TCP?

(ii) (a) Write the differences between phishing and pharming.

(b) Explain about firewall and IP security.

(iii) What is an IP address? Explain the classes of IP address. Explain the term SMTP and POP of email.

(iv) Write short notes of the following :
(any three) 5×3=15

(a) CORBA

(b) ASP.NET

(c) BOOTP

(d) DNS
