Total No. of printed pages = 3

MCA 202302

Roll No. of candidate

1▪/4/21 2021

M.C.A. 3ʳᵈ Semester End-Term Examination

WEB TECHNOLOGY AND SERVICES

New Regulation (w.e.f 2020-21)

New Syllabus (w.e.f 2020-21)

Full Marks – 70   Time – Three hours

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

Answer Question No.1 and any *four* from the rest

1. Choose the correct answer $(10 \times 1 = 10)$

(i) Which among the following is not an HTML tag?

  (a) <select>   (b) <list>

  (c) <input>   (d) <textarea>

(ii) The output of a dynamic web-page is ———

  (a) HTTP   (b) HTML

  (c) Applet   (d) Active-X control

(iii) W3C stands for ———

  (a) World Wide Web Consortium

  (b) World Wide Web Community

  (c) World Wide Websites Consortium

  (d) World Wide Websites Community

(iv) MIME type stands for

  (a) Multi-purpose Internet Multimedia Extension

  (b) Multi-purpose Internet Mail Extensions

  (c) Multi Internet Media Extension

  (d) None of these

[Turn over

(v) In HTML, ————— attribute is used for merging of two or more adjacent columns.

(a) CELLPADDING   (b) CELLSPACING

(c) ROWSPAN   (d) COLSPAN

(vi) To add a background color for all <h1> elements, which of the following HTML, syntax is used

(a) h1 {background-color: # FFFFFF}

(b) {background-color: # FFFFFF}. h1

(c) (background-color: # FFFFFF} .h1(all)

(d) h1. all {bgcolor = #FFFFFF}

(vii) In an HTML page, the <a> tag defines a hyperlink, and its ————— attribute specifies the URL of the page the link goes to.

(a) link   (b) Href

(c) Img   (d) path

(viii) Main container for <TR>, <TD> and <TH> is

(a) <TABLE>   (b) <GROUP>

(c) <DATA>   (d) All of these

(ix) The attribute of <form> tag

(a) Method   (b) Action

(c) Both (a) and (b)   (d) None of these

(x) A session variable is declared and assigned some value; the content is retained till —————

(a) till browser disconnects

(b) the session is destroyed

(c) until the browser cache is cleared

(d) both (a) and (b)

2. (a) What are cookies and session? Why is a session object considered more secure than cookies?   (3+2=5)

(b) Explain the different types of addressing used in Internet. Why IP address is needed?   (4+1=5)

(c) Describe the importance of identifying the target users of your web-site? How do you select contents of your web site?   (3+2=5)

3. (a) What is Active X and what is its function? State the difference between Active X and Java Applets. (2+3=5)

(b) Define XML. What are the basic rules to write XML document? Explain with syntax. (2+3=5)

(c) What are the different ways of adding style (CSS) to a webpage? (2)

(d) Why is client-side scripting required? (3)

4. (a) Write the differences between include and require in PHP. (2)

(b) Explain different types of DTD with examples. (5)

(c) Why HTTP is called a stateless protocol? Explain. (3)

(d) Explain the fields in the header of a TCP segment. (5)

5. (a) What are the various types of firewall? Explain in brief. (5)

(b) Write HTML/JSP scripts to input Name (as text) and gender (as radio button) and display a welcome message addressing him by name as entered in the form. (5)

(c) Discuss Dynamic Webpage Technologies. (5)

6. (a) What are Servlets? Discuss the Servlet life cycle. (2+3=5)

(b) How routers and IP addresses work together in Internet? Compare IPv4 and IPv6. (3+2=5)

(c) Why handshake protocol is used in SSL? How the phases of this protocol work? (1+4=5)

7. Short Notes (Answer any *three*) (3 × 5 = 15)

(a) JDBC and ODBC

(b) AJAX

(c) Digital Signature

(d) Semantic Web