(14)

GURU NANAK INSTITUTE OF TECHNOLOGY
An Autonomous Institute under MAKAUT
2022
WEB TECHNOLOGY
CS702C

TIME ALLOTTED: 3Hours   FULL MARKS:70

The figures in the margin indicate full marks.
Candidates are required to give their answers in their own words as far as practicable.

GROUP – A
(Multiple Choice Type Questions)
Answer any *ten* from the following, choosing the correct alternative of each question: 10×1=10

			Marks	CO No
1.	(i)	Cookies were originally designed for _____ a) Client side programming b) Server side programming c) Both Client side programming and Server side programming d) None of the mentioned	1	CO4
	(ii)	Which is not a directive? a) Include b) Page c) Export d) UseBean	1	CO4
	(iii)	What is the correct javascript syntax to write"Web Tech"? a) ("Web Tech") b) " Web Tech " c) Response.write("Web Tech") d) Document.write("Web Tech")	1	CO2
	(iv)	What's the difference between servlets and applets? 1. Servlets executes on Servers, whereas Applets executes on Browser 2. Servlets have no GUI, where as an Applet has GUI 3. Servlets creates static web pages, where as Applets creates dynamic web pages 4.Servlets can handle only a single request, whereas Applet can handle multiple requests a) 1,2,3 are correct b) 1,2 are correct c) 1,3 are correct d) 1,2,3,4 are correct	1	CO4
	(v)	Variable name in PHP starts with - a) ! (Exclamation) b) $ (Dollar) c) & (Ampersand) d) # (Hash)	1	CO3

(vi)	Which of the following are the session tracking techniques? a) URL rewriting, using session object, using cookies, using hidden fields b) URL rewriting, using session object, using response object, using hidden fields c) URL rewriting, using servlet object, using response object, using cookies d) URL rewriting, using request object, using response object, using session object	1	CO4

(vii) Full form of XML is   1   CO3
   a) X-tensible Markup Language
   b) Extensible Markup Language
   c) Extended Markup Language
   d) Extended Marking Language

(viii) What will be the output of the following PHP code?   1   CO3
```
<?php
while(1){
   print "PHP code";
      } ?>
```
   a) infinite loop
   b) PHP code
   c) no output
   d) error

(ix) The values GET, POST, HEAD etc are specified in ____ of   1   CO1
HTTP message.
   a) Request line
   b) Header line
   c) Status line
   d) Entity body

(x) What is the use of iframe in HTML?   1   CO2
   a) To display a web page within a web page
   b) To display a web page with animation effect
   c) To display a web page without browser
   d) All of the Above

(xi) Applet is used in _____ web page   1   CO4
   a) Dynamic
   b) Active
   c) Both dynamic and static
   d) Static

(xii) What is MVC?   1   CO4
   a) The Model represents the application core (for instance a list of database records)wrong
   b) The View displays the data (the database records)
   c) The Controller handles the input (to the database records)
   d) All of the above

GROUP – B
(Short Answer Type Questions)
Answer any *three* from the following: 3×5=15

			Marks	CO No
2.	(a)	What do you mean by the term "Cascading Style Sheet" in html?	2	CO4
	(b)	Explain internal style sheet with the help of a simple example.	3	CO2
3.		What is XML? Explain XML tree structure.	5	CO4
4.	(a)	Explain the term "Documentary Object Model" in web technology.	3	CO2
	(b)	What do you mean by the term "XML Parser?	2	CO3
5.		Discuss Applet life cycle	5	CO4
6.	(a)	Explain MVC Architecture in brief?	3	CO2
	(b)	What is the main usage of image map in a web page?	2	CO2

GROUP – C
(Long Answer Type Questions)
Answer any *three* from the following: 3×15=45

			Marks	CO No.
7.	(a)	What is the difference between internal and external CSS?	2	CO2
	(b)	Explain internal and inline CSS with the help of an example in html.	6	CO2
	(c)	Explain (i) anchor tag <a> (ii) image tag <img> (iii) paragraph tag <p> iv)header <h1> tag and v) title tag <title> within a single html code.	5	CO2
	(d)	What is the difference between Cell spacing and cell padding for a particular html table?	2	CO2
8.	(a)	Design your Institute's webpage using HTML and other related technologies. Clearly draw the output and describe the tags used in design of the webpage.	5	CO1
	(b)	What are the drawbacks of HTML? How are they addressed in XML?	3	CO1
	(c)	What is the advantage of client side scripting?	2	CO2
	(d)	Why are active web pages better solution than dynamic web pages and in which scenario we should not use active web page?	5	CO2
9.	(a)	Why JSP is required in Web Programming?	3	CO4
	(b)	Describe the usage of include directives in JSP?	3	CO4
	(c)	Explain the life cycle of JSP with the help of a suitable diagram. .	7	CO4
	(d)	What is the main difference between JSP forward action tag and include action tag?	2	CO4
10.	(a)	Design an XML document containing details about four students. Student attributes can be added as per your choice	6	CO4
	(b)	Differentiate between 'Get' and 'Post' methods in PHP.	4	CO4
	(c)	Write a JavaScript that will accept two numbers and display their sum.	5	CO3

11.		Short Notes (Any Three)	3x5=15	
	(a)	HTTP Request and Response	5	CO1
	(b)	Document Type Definition (DTD)	5	CO2
	(c)	Java Servlet life cycle	5	CO4
	(d)	Image map in html	5	CO1
	(e)	XML-DTD	5	CO4