

GURU NANAK INSTITUTE OF TECHNOLOGY
An Autonomous Institute under MAKAUT
2021
WEB TECHNOLOGY
IT602

TIME ALLOTTED: 3 HOURS

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) What is the default type of 'type' attribute of <input> element?	1	CO2
a) Text		
b) Password		
c) Numerals		
d) Special Characters		
(ii) In a Javascript Application what function can be used to send messages to users requesting for an text input?	1	CO1
a) Display()		
b) Alert()		
c) GetOutput()		
d) Prompt()		
(iii) How the dynamic interception of requests and responses to transform the information done?	1	CO2
a) servlet container		
b) servlet config		
c) servlet context		
d) servlet filter		
(iv) Assume that an HTML form is designed to purchase the furniture. All the items required are being checked. After selecting the items the payment details are entered and the submit button is pressed. From the following options which one would you prefer to send the data to the server. Assume that all the security is handled.	1	CO4
a) Only POST		
b) Only GET		
c) Either of GET or POST		
d) Neither GET nor POST		
(v) Which of the following statements are true?	1	CO3
a) HTTP runs over TCP		
b) HTTP allows information to be stored in a URL		
c) HTTP can be used to test the validity of a hypertext link		
d) All of the above		

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|---|---|-----|
| (vi) Which one of the following objects can be used in expression and scriptlets in JSP without explicitly declaring them?
a) Request and response only
b) Response and session only
c) Session and request only
d) Session,request and response | 1 | CO4 |
| (vii) Which of these is a client server application?
a) Web browsing
b) E-mail
c) Internet Chat
d) All of the above | 1 | CO3 |
| (viii) Which of the following is the correct syntax to print a page using JavaScript?
a) window.print();
b) browser.print();
c) navigator.print();
d) document.print(); | 1 | CO2 |
| (ix) Which of the following is true about variable naming conventions in JavaScript?
a) You should not use any of the JavaScript reserved keyword as variable name.
b) JavaScript variable names should not start with a numeral (0-9).
c) Both of the above.
d) None of the above. | 1 | CO3 |
| (x) What XML stands for?
a) Extra Marked Language
b) Extensible Markup Language
c) Extensible Marked Literal
d) Extra Markup Language | 1 | CO4 |
| (xi) Request is instance of which class?
a) Request
b) HttpRequest
c) HttpServletRequest
d) ServletRequest | 1 | CO3 |

GROUP – B

(Short Answer Type Questions)

Answer any **three** from the following: 3×5=15

- | | Marks | CO No. |
|---|--------------|---------------|
| 2. What is HTTP? How does it work? Give appropriate example. | 5 | CO2 |
| 3. Write a HTML code that display IT 3rd students details in a table. | 5 | CO3 |
| 4. (a) What is client side scripting? | 2 | CO2 |
| (b) Explain with suitable example. | 3 | CO2 |

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|---|---|-----|
| 5. Write a short note on cookie with example. | 5 | CO3 |
| 6.(a) Define CSS. | 2 | CO4 |
| (b) What are the benefits to use CSS. | 3 | CO4 |

GROUP – C

(Long Answer Type Questions)

(Answer any *three* of the following) **3 x 15 = 45**

- | | Marks | CO No. |
|--|--------------|---------------|
| 7.(a) What is JDBC? | 2 | CO3 |
| (b) What do you mean by Web server? Analyze the limitations of web server? | 6 | CO3 |
| (c) How to Create http Server and Get Data in Node.JS? | 7 | CO3 |
| 8.(a) What is Servlet? | 3 | CO4 |
| (b) Briefly explain life cycle of Servlet? | 7 | CO4 |
| (c) Difference between web Server vs Application Server. | 5 | CO4 |
| 9.(a) Define web technology? | 3 | CO2 |
| (b) Draw Web architecture and explain. | 5 | CO2 |
| (c) Write a JavaScript code for followings:
Validate a text field that only takes numbers
Validate a text filed that only takes a-z
Validate a email add. | 7 | CO2 |
| 10.(a) Explain how Request – Response mechanism works over Internet. | 7 | CO1 |
| (b) Write and explain tags to create following HTML form elements with their attributes.
(i). textbox
(ii). Dropdown list
(iii). Checkbox | 8 | CO1 |
| 11. Write short notes on any three of the following: | | |
| (a) Mongodb | 5 | CO3 |
| (b) W3C | 5 | CO3 |
| (c) Applet | 5 | CO4 |
| (d) HTTPS | 5 | CO2 |
| (e) XML | 5 | CO4 |