GANDHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, ODISHA, GUNUPUR
(GIET UNIVERSITY)

M.C.A (Third Semester) Regular Examinations, November – 2024

MCA23301 – Internet and Web Technology

(MCA)

Time: 3hrs   Maximum: 60 Marks

(The figures in the right hand margin indicate marks)

PART – A   **(2 x 5 = 10 Marks)**

Q.1. Answer *ALL* questions

		CO #	Blooms Level
a.	Compare inline, internal, and external CSS, providing examples and discussing when it is used in web development.	CO1	K2
b.	What is Dynamic HTML (DHTML), and how does JavaScript play a role in it?	CO2	K2
c.	What is Angular? Why was it introduced?	CO3	K1
d.	What is PHP?	CO4	K1
e.	Write the established code for connecting to a MySQL database.	CO5	K2

PART – B   **(10 x 5 = 50 Marks)**

Answer *ALL* questions

		Marks	CO #	Blooms Level
2. a.	Define XML and its relationship to HTML.	5	CO1	K1
b.	Explain the concept of the CSS box model and its components (content, padding, border, and margin). How can you use it to control the layout of elements on a web page?	5	CO1	K2
	(OR)			
c.	What are the basic structural elements of an HTML document? Explain the role of the <head> and <body> tags.	5	CO1	K2
d.	Define the Document Object Model (DOM) and its role in web development.	5	CO1	K1
3.a.	Define a JavaScript function to calculate the area of a rectangle, taking length and width as parameters. Input: (length = 8, width = 6)	5	CO2	K3
b.	What is JavaScript? Explain its role in web development and the difference between client-side and server-side JavaScript.	5	CO2	K2
	(OR)			
c.	Discuss how JavaScript can be used to dynamically modify HTML elements, styles, and attributes.	5	CO2	K2
d.	What is AJAX? Describe how AJAX operates within client-server architecture.	5	CO2	K2
4.a.	What is AngularJS? Explain its key features and benefits.	5	CO3	K2
b.	What is a web server? Explain the role of web servers in delivering web content.	5	CO3	K2
	(OR)			

c.	What is server-side scripting? Explain its role in web development.	5	CO3	K2
d.	What is node.js? How it works and where we can use it.	5	CO3	K2
5.a.	Explain different Features of PHP.	5	CO4	K1
b.	Describe different types of operators in PHP and provide examples that demonstrate each type.	5	CO4	K2

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c.	Provide an example of a simple PHP script and describe each component, including tags, comments, and statements.	5	CO4	K2
d.	Describe the rules for naming variables, how variables are assigned values, and how constants differ from variables. Provide examples.	5	CO4	K2
6.a.	What is Switch Statement? Write a JavaScript program for the employee performance rating (between 1 to 6) displays the appropriate performance badge by using switch case.	5	CO2	K2
b.	What CSS rule would we use to change the text color of all <h4> elements to Red and all <h1> elements to blue how would you apply it by using External CSS?	5	CO1	K3

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c.	How to Establish a Database Connection with MySQL?	6	CO5	K3
d.	Write down the different steps for connecting to MySQL Database in a JSP Page.	4	CO5	K2

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