Website : www.tcetmumbai.in

Raghu Singh Charitable Trust's (Regd.)
THAKUR COLLEGE OF
ENGINEERING & TECHNOLOGY
Autonomous College Affiliated to University of Mumbai
Approved by All India Council for Technical Education(AICTE) and Government of Maharashtra(GoM)
Conferred Autonomous Status by University Grants Commission (UGC) for 10 years w.e.f. A.Y 2019-20
Amongst Top 200 Colleges in the Country, Ranked 193rd in NIRF India Ranking 2019 in Engineering College category
• ISO 9001:2013, 14001:2015, 50001:2018 Certified • Programmes Accredited by National Board of Accreditation (NBA), New Delhi
• Institute Accredited by National Assessment and Accreditation Council (NAAC), Bangalore
Estd.2001

IN-SEMESTER EXAMINATION-I
TE (Semester-V)
SUBJECT – WEB PROGRAMMING

Date: 28/08/2024
Timing: 4:00 PM to 5:00 PM
Maximum Marks: 20

Branch: IT
Div.: IT
Duration: 60 Minutes
Instructions –
All questions are compulsory.
Assume suitable data wherever necessary and state the assumptions made.
Diagrams / sketches should be given wherever necessary.
Use of logarithmic table, drawing instruments and non-programmable calculators is permitted.
Figures to the right indicate full marks.

			Marks	Course Outcomes	Learning Levels
Q.1		**Answer any 5 of the following questions**			
	a.	Describe the role of forms in HTML. Mention two input elements commonly used in forms.	2	1	R
	b.	Write the HTML code to create following table with rows and columns and add headers for each column. Roll No. | Class | Name of Student 1 | TE IT | ABC 2 | TE IT | LMN 3 | TE IT | XYZ	2	1	A
	c.	Explain the purpose of semantic elements in HTML5. Provide two examples.	2	1	U
	d.	Describe the difference between "em" and "rem" units in CSS.	2	2	U
	e.	Write a CSS rule to change the background colour of a paragraph to blue	2	2	A
	f.	How does JavaScript function differently on the client side versus the server side? Discuss the roles and use cases for each.	2	3	U
	g.	What are the major features of React?	2	3	U
Q.2	a.	Compare and contrast relative and absolute positioning in CSS.	5	2	U
		OR			
	b.	How would you change the font colour of a hyperlink when a user hovers over it TO RED COLOR	5	2	A
Q.3	a.	Which decision-making statements are used in JavaScript?	5	3	A
		OR			
	b.	Design a BMI calculator using JavaScript	5	3	U

Thakur Shikshan Trust's (Regd.)
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IN-SEMESTER EXAMINATION-II

T.E. (Semester-V)

SUBJECT – WEB PROGRAMMING

Branch: IT
Div.: ALL
Duration: 60 Minutes
Instructions –

Date: 18/10/2024
Timing: 04:00 PM to 05:00 PM
Maximum Marks: 20

1. All questions are compulsory.
2. Assume suitable data wherever necessary and state the assumptions made.
3. Diagrams / sketches should be given wherever necessary.
4. Use of logarithmic table, drawing instruments and non-programmable calculators is permitted.
5. Figures to the right indicate full marks.

Q.1		Answer any 5 of the following questions	Marks	Course Outcomes	Learning Levels
	a.	How do you declare and assign values to variables in PHP? What are the rules for variable declaration?	2	4	AN
	b.	What are constants in PHP? How are they declared and used in code?	2	4	R
	c.	Illustrate what does the require function do in Node.js?	2	5	A
	d.	Explain what Node.js is and how it differs from traditional server-side JavaScript. Discuss its significance in modern web development.	2	5	U
	e.	What is the Django template language used for?	2	6	R
	f.	Write a Django view function that renders an HTML template named "index.html" for the homepage of a website.	2	6	A
	g.	What is Django's primary purpose, and how does it help web developers achieve it?	2	6	R
Q.2	a.	Mention and elaborate on some widely used PHP coding standards or guidelines. Why are these important in development?	5	4	AN
		OR			
	b.	Write a PHP function to add two numbers. Explain the code and discuss how functions like this are utilized in real-world applications.	5	4	U
Q.3	a.	Demonstrate the role of NPM in Node.js development. Describe how to initialize a new Node.js project, manage dependencies, and install packages using NPM.	5	5	A
		OR			
	b.	Design a Node.js code snippet that reads a file named "example.txt" and logs its content to the console.	5	5	AN

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END SEMESTER EXAMINATION, DEC 2024
T.E. SEMESTER V (CBCGS-HME 2023)

Branch:	**IT**	**Q.P. Code:**	**ED245ITR6S4-1**
Subject:	**Web Programming**	**Duration:**	**2 hours**
Subject Code:	**PCC-IT-503**	**Max. Marks:**	**60**

Instructions: **1. All sections are compulsory**
2. Figures to the right indicate full marks.
3. Assume suitable data if necessary and state the assumptions clearly.

Section-I	**Short Answer Questions (Answer any 05 questions out of 06) (Fundamental, Core Types)**	**Marks**	**CO**	**RBT Level**	**PI**
Q. No.					
1	Describe the role of the <canvas> element in HTML5. Provide an example where it might be used.	2	1	U	1.7.1
2	Discuss in detail about Font and Text styles in CSS?	2	2	R	1.1.1
3	What is the use of pop up boxes in java script?	2	3	R	1.1.1
4	Differentiate between echo and print in PHP.	2	4	A	1.6.1
5	Explain what Node.js is and how it differs from traditional server-side JavaScript. Discuss its significance in modern web development.	2	5	U	1.6.1
6	Explain what Django is and why it is considered a popular web framework for Python.	2	6	U	1.7.1
Section-II	**Descriptive Answer Questions (Answer any 04 out of 06) (Descriptive, Comprehension Types)**				**(20 Marks)**
1	Write code to generate below output using SVG Consider SVG height & width to be 100 px. Consider the x,y coorordinate of circle to be 50 respectively and radius : 20 	5	1	A	1.3.1
2	Compare and contrast relative and absolute positioning in CSS.	5	2	U	2.1.3
3	Discuss in detail about How to create components in React?	5	3	U	2.1.3
4	What is a function in PHP? Discuss their importance and explain the different types of functions with examples.	5	4	AN	3.6.2
5	Create a basic "Hello, World!" application in Node.js. Include code snippets and explanations for each step.	5	5	A	3.6.2
6	How do Django apps enhance the organization and modularity of a Django project? Provide an example of when you might create a custom app in Django.	5	6	U	2.8.1

Section-III	Long Answer Question (Answer any 03 out of 05) (Application, Analytical, Evaluation, Design Type)				(30 Marks)
1	Design College Information Site: Describes activities happening on campus, including academic and cultural events. This could also feature a special page for alumni. Include following Key Elements: Headings, paragraphs, line breaks, bold, italics , Navigation tags and Hyperlinks	10	2	A	2.1.3
2	Write a JavaScript program to find greatest of three given numbers?	10	3	C	1.3.1
3	Discuss the POST method in PHP. Design and implement a PHP program to create a simple login form using the POST method, and explain how data is handled and processed.	10	4	A	3.6.2
4	Can you create a RESTful API for a blogging platform using Node.js and Express.js?	10	5	U	2.5.1
5	Explain the concept of Django apps and their role in a Django project. Provide a step-by-step guide on how to create a new app within an existing Django project. Include instructions for defining models, views, and templates within the app.	10	6	A	3.6.2