

Please check that this question paper contains 09 questions and 02 printed pages within first ten minutes.

EVENING

[Total No. of Questions:09]

Uni. Roll No.

06 JAN 2023

[Total No. of Pages: 02]

Program: B.Tech .(Batch 2018 onward)

Semester: 5th

Name of Subject: Advanced Web Technologies

Subject Code: PEIT-102

Paper ID: 16445

Time Allowed: 03 Hours

Max. Marks: 60

NOTE:

- 1) Parts A and B are compulsory
- 2) Part-C has Two Questions Q8 and Q9. Both are compulsory, but with internal choice
- 3) Any missing data may be assumed appropriately

Part – A

[Marks: 02 each]

Q1.

- a) How can you create an alert in bootstrap?
- b) List some popular MVC framework.
- c) How to apply patching using git ?
- d) Illustrate the concept of model binding in Laravel?
- e) Outline the controller usage and scope in Codeigniter framework?
- f) Compare and contrast local git and remote git?

Part – B

[Marks: 04 each]

- Q2. Discuss bootstrap table and various classes that can change the appearance of table and also write the code to create a table.
- Q3. Demonstrate the MVC architecture used for creating web application. Also explain its advantages.
- Q4. Why is there a need for Exception Handling? Write a code to demonstrate it in PHP.
- Q5. Create the Laravel project (write the steps for installation, environment setup, configuration) with route definition that can be redirected to the web application home page.

- Q6. What is version control system? Write its main purpose. Also provide the steps for installation of any VCS?
- Q7. How will you differentiate between ActionResult and ViewResult? Support your answer with a basic syntax code.

Part – C

[Marks: 12 each]

- Q8. Design a Codeigniter web application to demonstrate the CI model, view, routes and controller with CURD operations. Also compare fluid and default grid system.

OR

Assume that the Annual Sports meet event is being organized in your college, so make a responsive registration form using bootstrap 5 using its features. Also compare bootstrap 4 with 5.

- Q9. Write the meaning of these commands: git status, git log, git branch, git commit, git config, git restore, git init, git pull, git push, git add, git diff, git checkout.

OR

How to create the local and remote repository on any git server using SSH or https? Write down the different steps and commands used to install and set up new branch, also perform pull, push and merge operations on git the repository.

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04 DEC 2023

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Part – A

[Marks: 02 each]

Q1.

- a) Explain grid in bootstrap with example.
- b) Describe the controller usage and scope in Codeigniter framework.
- c) Illustrate the concept of model binding.
- d) What does MVC stand for, and briefly explain its core concepts?
- e) How does GIT handle conflicts during the merging of branches?
- f) Design a scenario where “Alerts” are used to improve the overall experience for users.

Part – B

[Marks: 04 each]

- Q2.** Explore the concept of routing in Laravel framework.
- Q3.** Describe the steps and GIT commands involved in pushing multiple commits from your local GIT repository to a remote repository and pulling changes from the remote repository to update your local repository.
- Q4.** Why is bootstrap used for web Development? Illustrate its major components in detail.
- Q5.** Design a navigation bar for a website using Bootstrap, incorporating dropdown menus as part of the navigation structure.
- Q6.** Construct an effective data entry form using Bootstrap components and classes.

- Q7. Outline the process of setting up a CodeIgniter project, detailing the steps for installation, configuring the environment, and establishing route definitions.

Part – C**[Marks: 12 each]**

- Q8. Demonstrate the MVC architecture used for creating web application. Also list its advantages.

OR

Compare and contrast two different MVC frameworks.

- Q9. How to create the local and remote repository on any GIT server using SSH OR https. Write down the different steps and commands used to install and setup new branch, perform pull, push and merge operations on GIT the repository.

OR

Design a web application to demonstrate the CodeIgniter/Laravel model, view, routes and controller with CURD operations.

Guru Nanak Dev Engineering College, Ludhiana

Department of Information Technology		Semester	5
Program	B. Tech (IT)	Subject Title	Advanced Web Technologies
Subject Code	PEIT-102	Course Coordinator(s)	Akshay Girdhar
Mid Semester Exam (MSE) No.	1	Time Duration	1 hour 30 minutes
Max. Marks	24	Roll Number	
Date of MSE	28 th September, 2023		

Note: Attempt all questions. All assumptions must be clearly stated.

Q. No.	Question	COs, RBT level	Marks
Q1/	Evaluate the following statement : "As a developer, I should use Bootstrap."	CO1, L5	2
Q2/	Differentiate between git status and git diff command.	CO3, L2	2
Q3/	How the grid system is effective for creating tables? Show with the help of an example.	CO1, L3	4
Q4/	How the grid system is effective for creating tables? Show with the help of an example.	CO3, L4	4
Q5/	You have made several commits in your local GIT repository. Elaborate the process of pushing and pulling these changes to and from a remote repository. Include the necessary GIT commands and steps.	CO1, L3	4
Q6/	Create a Bootstrap-based navigation bar for a website that includes dropdown menus.	CO1, CO3, L6	8
Q7/	Imagine you are working on a collaborative web development project using Bootstrap 5 and GIT. Your team is facing challenges in maintaining consistent styling and layout across different web pages. Additionally, you need to address issues related to version control conflicts in GIT. a) Propose a strategy for ensuring consistent styling and layout across multiple web pages using Bootstrap 5. b) Outline a plan to manage version control conflicts effectively in GIT, considering the challenges faced by your team. Above 2 points must be addressed with the help of student registration for admission to any program.		

Course Outcomes (CO)

Students will be able to

1	Apply the knowledge of HTML5 based Bootstrap framework for web page designing.
2	Create and design web applications using MVC approach and Bootstrap.
3	Demonstrate the understanding of version control and data repository maintenance using GIT.
4	Develop web applications using the PHP frameworks.
5	Identify, formulate and solve engineering problems in the area of dynamic web applications.

RBT Classification	Lower Order Thinking Levels (LOTS)			Higher Order Thinking Levels (HOTS)		
	L1	L2	L3	L4	L5	L6
RBT Level Number						
RBT Level Name	Remembering	Understanding	Applying	Analyzing	Evaluating	Creating

Guru Nanak Dev Engineering College, Ludhiana			
Department of Information Technology			
Program	B.Tech.(IT)	Semester	5
Subject Code	PEIT-102	Subject Title	Advanced Web Technologies
Mid Semester Exam (MSE) No.	1	Course Coordinator(s)	Akshay Girdhar
Max. Marks	24	Time Duration	1 hour 30 minutes
Date of MSE	9 th November, 2023	Roll Number	

Note: Attempt all questions. All assumptions must be clearly stated.

Q. No.	Question	COs, RBT level	Marks
Q1	Analyze the following statement with respect to any PHP framework: "URLs based on the requirement instead of using the predefined URLs."	CO5, L4	2
Q2	Differentiate between Laravel and CodeIgniter.	CO5, L2	2
Q3	In CodeIgniter, describe the directory structure and configurations.	CO5, L2	4
Q4	Discuss the concept of routing with example in the context of Laravel framework.	CO5, L2	4
Q5	Create a Laravel web application with route definition that can be redirected to the web application home page.	CO5, L6	4
Q6	Design a CodeIgniter/Laravel web application to demonstrate model, view, and controller for CURD operations for a 'user' table.	CO6, L6	8

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