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NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA

(An Autonomous Institute Affiliated to AKTU, Lucknow)

B.Tech

SEM: VI - THEORY EXAMINATION (2023- 20 24)

Subject: Full-Stack Web Development using Laravel with Vue.JS

Time: 3 Hours

Max. Marks: 100

General Instructions:

IMP: Verify that you have received the question paper with the correct course, code, branch etc.

1. This Question paper comprises of **three Sections -A, B, & C**. It consists of Multiple Choice Questions (MCQ's) & Subjective type questions.
2. Maximum marks for each question are indicated on right -hand side of each question.
3. Illustrate your answers with neat sketches wherever necessary.
4. Assume suitable data if necessary.
5. Preferably, write the answers in sequential order.
6. No sheet should be left blank. Any written material after a blank sheet will not be evaluated/checked.

SECTION-A

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1. Attempt all parts:-

- 1-a. Select command to make migration in Laravel. (CO1) 1
- (a) php artisan migration table
 - (b) php artisan make:migration create_tags_table
 - (c) php artisan make-migration digit
 - (d) None of these
- 1-b. Select the purpose of a Restful Resource Controller. (CO1) 1
- (a) To provide a way to authenticate users in a RESTful API.
 - (b) To provide a way to manage resources in a RESTful API.
 - (c) To provide a way to connect to a database in a RESTful API.
 - (d) To provide a way to generate documentation for a RESTful API.
- 1-c. Choose the directive which is used to listen to an event on an element in Vue.js. (CO2) 1
- (a) v-on
 - (b) v-bind
 - (c) v-show
 - (d) v-model
- 1-d. Select the HTTP method which is used to partially update data on a server in Inertia.js. (CO2) 1
- (a) GET

- (b) POST
 - (c) PUT
 - (d) PATCH
- 1-e. Choose how we can override the default Laravel authentication configuration. (CO3) 1
- (a) By modifying the .env file
 - (b) By modifying the config/auth.php file
 - (c) By modifying the routes/web.php file
 - (d) By modifying the resources/views/auth/login.blade.php file
- 1-f. Select the command that is used to install Laravel Faker in a Laravel application. (CO3) 1
- (a) composer require laravel/faker
 - (b) composer install faker
 - (c) composer add faker/laravel
 - (d) composer faker/laravel require
- 1-g. Choose function from given option that is used to retrieve values from the configuration file in Laravel (CO4) 1
- (a) config()
 - (b) retrieve()
 - (c) settings()
 - (d) get()
- 1-h. In Laravel, select a query event that is fired after a query is executed. (CO4) 1
- (a) Illuminate\Database\Events\QueryExecuted
 - (b) Illuminate\Database\Events\QueryBuilding
 - (c) Illuminate\Database\Events\QueryExecuting
 - (d) Illuminate\Database\Events\QueryStarted
- 1-i. Choose which of the following command that is used to generate a new Laravel controller. (CO5) 1
- (a) php artisan generate:controller
 - (b) php artisan controller:make
 - (c) php artisan make:controller
 - (d) php make:controller
- 1-j. Choose the correct default location of the optimized autoload files in Laravel Forge. (CO5) 1
- (a) /vendor/autoload.php
 - (b) /vendor/composer/autoload.php
 - (c) /vendor/composer/autoload_real.php
 - (d) None of these

2. Attempt all parts:-
 - 2.a. Define purpose of Composer in Laravel. (CO1) 2
 - 2.b. Define HTTP method which is used to retrieve data from a server in Inertia.js. (CO2) 2
 - 2.c. Discuss the authentication methods available in Laravel. (CO3) 2
 - 2.d. Write steps to test if your Laravel application is properly connected to the database. (CO4) 2
 - 2.e. Differentiate deploying with Vapor and traditional hosting methods. (CO5) 2

SECTION-B

30

3. Answer any five of the following:-

- 3-a. Discuss the steps that how does Laravel handle database migration and schema management. (CO1) 6
- 3-b. Define the role of the app/Providers directory in Laravel, and how can you add custom service providers to your application. (CO1) 6
- 3-c. Give an example of how you would bind a value to the href attribute of an anchor tag. What is the difference between using v-bind:href and :href. (CO2) 6
- 3-d. Elaborate how do you use the v-show directive to conditionally show an element in Vue.js. (CO2) 6
- 3.e. Discuss Repository pattern in Laravel and how is it used. (CO3) 6
- 3.f. Describe the difference between a "raw" query and a "compiled" query in Laravel Query Builder. (CO4) 6
- 3.g. Explain how you set up a production database for a Laravel application. (CO5) 6

SECTION-C

50

4. Answer any one of the following:-

- 4-a. Explain terminable Middleware in Laravel and how does it work. Discuss the key features of Terminable Middleware and how it differs from standard Middleware in Laravel. (CO1) 10
- 4-b. Discuss the various benefits of using Method Injection, such as enabling optional dependencies, facilitating method chaining, and simplifying the configuration of dynamic dependencies. (CO1) 10

5. Answer any one of the following:-

- 5-a. Create a Vue.js application with a component that takes user input and displays it in real-time. Use template syntax and expressions to achieve this functionality. (CO2) 10
- 5-b. Implement a Vue.js component that displays a form with two input fields: username and password. Use v-if and v-else to conditionally show different parts of the form based on whether the user is already logged in or not. (CO2) 10

6. Answer any one of the following:-

- 6-a. Discuss how you can allow users to login using either their username or email in 10

Laravel authentication. (CO3)

- 6-b. Explain how you can display an error message if the user enters an incorrect username or email during login. (CO3) 10
7. Answer any one of the following:-
- 7-a. Elaborate the process for setting up a database connection in Laravel, and the required configuration settings that need to be defined in Laravel's configuration files. (CO4) 10
- 7-b. Show all the steps involved in creating and modifying database tables using Laravel's migration system, and how does this system differ from traditional SQL scripts. (CO4) 10
8. Answer any one of the following:-
- 8-a. Define some best practices for deploying a Laravel application to a cloud-based hosting provider like AWS or Azure. (CO5) 10
- 8-b. Explain the concept of view caching in Laravel in detail, including its benefits and limitations. Also, discuss how you can implement view caching in Laravel applications. (CO5) 10

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