Time : $2\frac{1}{2}$ Hours / Total Marks : 70

1 (a) Answer the followings : 4

    (1) What is Laravel ?

    (2) MVC stands for_____

    (3) Name Magic Method available in PHP.

    (4) Lit four features of Object Oriented Programming.

  (b) Answer the followings : (any one) 2

    (1) Explain magic methods in PHP.

    (2) Explain anonymous class in PHP with example.

  (c) Answer the followings : (any one) 3

    (1) Explain configuration of Laravel.

    (2) What is the directory structure of Laravel application ?

  (d) Answer the followings: (any one) 5

    (1) Explain structure of Laravel application?

    (2) How do you protect sensitive configuration in Laravel ?

2 (a) Answer the followings : 4

    (1) What is Artisan Console in Laravel ?

    (2) What is the purpose of Artisan Migration ?

    (3) What are the different types of Route files in Laravel ?

    (4) What is Route Model Binding in Laravel ?

(b) Answer the followings : (any one)　　　　2
    (1) What is the difference between Route::get() and Route::post() methods in Laravel routing?
    (2) How do you define middleware for a controller in Laravel?

(c) Answer the followings : (any one)　　　　3
    (1) How do you pass parameters to a controller method in Laravel ?
    (2) What is the purpose of Route Groups in Laravel routing?

(d) Answer the followings : (any one)　　　　5
    (1) Expalin the process of generating commands using Artisan in Laravel.
    (2) How do you perform rate limiting in Laravel routing ?

3   (a) Answer the followings :　　　　4
    (1) What is Blade Template in Laravel ?
    (2) What are Blade Components and Slots in Laravel ?
    (3) CSRF stands for _____
    (4) List any five Available Validators.

(b) Answer the followings : (any one)　　　　2
    (1) How do you create a form in Laravel using Blade Templates?
    (2) What is a CSRF Token in Laravel and how do you generate it in a form using Blade Templates?

(c) Answer the followings : (any one)　　　　3
    (1) What is validation in Laravel and how it is used?
    (2) How do you display validation errors in Laravel using Blade Templates?

(d) Answer the followings : (any one)　　　　5
    (1) Explain the different types of validators available in Laravel for form validation.
    (2) How do you create custom validation rules in Laravel using Blade Templates and what is the process for creating a new validator ?

4   (a)   Answer the followings :   **4**
       (1)   What is the purpose of Migrations in Laravel ?
       (2)   Write a command to generate a Migration in Laravel.
       (3)   Write a command to migrate the database after doing changes.
       (4)   Write a command to rollback a Migration in Laravel.

    (b)   Answer the followings : (any one)   **2**
       (1)   What is a Seeder in Laravel and how it is used in Migration ?
       (2)   How do you add a new column to an existing table using Migration in Laravel ?

    (c)   Answer the followings : (any one)   **3**
       (1)   What is the Query Builder in Laravel and how it is used to retrieve results from a database ?
       (2)   How do you use Joins in Laravel Query Builder to retrieve data from multiple tables?

    (d)   Answer the followings : (any one)   **5**
       (1)   What are the different types of SQL interactions available in Laravel?
       (2)   How do you prevent Cross-site request forgery and SQL injection attacks in Laravel Query Builder?

5   (a)   Answer the followings :   **4**
       (1)   What is an Eloquent Model in Laravel ?
       (2)   Write a command to create a controller in Laravel.
       (3)   How do you retrieve a single Model instance using its primary key in Laravel ?
       (4)   What is a Mutator in Laravel Eloquent Models ?

    (b)   Answer the followings : (any one)   **2**
       (1)   What is a One-to-Many relationship in Laravel Eloquent Models ?
       (2)   How do you define a Many-to-Many relationship in Laravel Eloquent Models ?

(c) Answer the followings : (any one) **3**

    (1)   What is an API Resource in Laravel and how it is used to format API responses ?

    (2)   How do you generate and use a Laravel API Resource?

(d) Answer the followings : (any one) **5**

    (1)   What is Laravel Passport and how is it used for API authentication?

    (2)   How do you create a user authentication system in Laravel, including user model, database schema, routes and middleware?