

**MARWADI UNIVERSITY****Faculty of Technology****[ CE/IT ]****[ B.Tech ]****SEM: 7****MU FINAL EXAM****DECEMBER: 2022****Subject: - (Advance Web Technology) (01IT0701)****Date:- 20/12/2022****Total Marks:-100****Time: - 10:30 AM to 1:30 PM****Instructions:**

- 1. All Questions are Compulsory.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**

**Question: 1.**

(a) Objective MCQ (No. of Questions 10) [10]

1. Which keyword is used to refer to properties or methods within the class itself?  
a) private    b) public    c) this    d) protected
2. Which magic method is used to implement overloading in PHP?  
a) \_\_invoke    b) \_\_call    c) \_\_unset    d) \_\_wakeup
3. What is the use of isset( ) function in PHP?  
a) The isset() function is used to check whether variable is set or not  
b) The isset() function is used to check whether the variable is free or not  
c) The isset() function is used to check whether the variable is string or not  
d) None of the above
4. Which of the following expression matches any string containing at least one P?  
a) P\*    b) P+    c) P^    d) P#
5. What are the meta characters in PHP Regular Expression?  
a) Characters with a special meaning  
b) Set of symbols to perform the mathematical operations on the characters  
c) Characters written within the double quotes to search in the string  
d) None of the Above
6. Which of the following is the default View File of a newly created Laravel project?  
a) Index.php    b) Index.blade.php  
c) Welcome.php    d) Welcome.blade.php
7. Which command is used to create controller in laravel?  
a) php artisan create:controller Mycontroller  
b) php artisan make:controller Mycontroller  
c) php artisan controller Mycontroller  
d) None of these
8. Composer is a tool for \_\_\_\_\_ in PHP.  
a) Configuration    b) Dependency management  
c) Interpolation    d) none of the above

9. Which of the below modules is not a built-in module in Node.js ?  
 a) Express    b) Body-parser    c) fsread    d) http
10. Which engine node.js uses to execute the code?  
 a) Microsoft Engine    b) Chrome V8 JavaScript Engine  
 c) Node Engine    d) JS 7 Engine

(b) Short Que. (answer in one sentence: No. of Questions 10) [10]

1. Define Polymorphism.
2. What is the use of instanceof( )?
3. Define encapsulation.
4. What do the initials of POSIX stand for?
5. What is the full form of WSDL?
6. What is routing in Laravel?
7. Which component of MVC mainly deals with the Database?
8. What is the full form of CSRF?
9. Define NPM.
10. What is the full form of JSON?

**Question: 2.**

- (a) What is Web service? Explain Web service architecture with its components. [08]
- (b) What is Regular expression? What are the advantages of Regular expression? List the operators used in regular expression with its meaning. [08]

**OR**

- (b) Explain Regular expression functions with example. [08]  
 preg\_match( ), preg\_split( ), preg\_quote( ) and preg\_replace ( )

**Question: 3.**

- (a) Define Inheritance. Explain use of an inheritance with example. [08]
- (b) Explain run time polymorphism with example. [04]
- (c) What is constructor? What are the advantages of creating constructor? Explain constructor with example. [04]

**OR**

- (a) Define Interface. Explain use of an interface with example. [08]
- (b) What is traits? Explain traits with example. [04]
- (c) What is destructor? Explain with example. [04]

**Question: 4.**

- (a) Explain Laravel MVC architecture in detail. [08]
- (b) What is controller in Laravel? Explain with example. [08]

**OR**

- (a) Define request and response in laravel. Explain var\_dump( ), url( ), fullurl( ), path( ), method( ) and isMethod( ) with example. [08]
- (b) What is view in Laravel? Explain with example. [08]

**Question: 5.**

- (a) Create laravel application which performs form validation on name, password, Email and phone number. Use CSRF for validation. [06]
- (b) Create laravel application which performs insert operation in User table. Data to be inserted are Id, Name, Email, Mobile and Address. [06]
- (c) Explain session in laravel with example. [04]

**OR**

- (a) Create laravel application which performs retrieve and delete operation on User table. Table contains Id, Name, Email, Mobile and Address. [06]
- (b) Create laravel application to update the User table data. User table contains Id, Name, Email, Mobile and Address. Update the name of user whose Id is "7". [06]
- (c) Explain cookie in laravel with example. [04]

**Question: 6.**

- (a) What is Node.js. Explain features of Node.js in details. [08]
- (b) Explain Node.js REPL in detail. [04]
- (c) Create node.js application which retrieves employee name and department from employee table. Also perform insert operation by inserting EId, Ename, Edept and Esalary in employee table. [04]

**OR**

- (a) What are the functionalities that NPM provides? Create your own NPM module which return current date and time. Also show how to include that module? [08]
- (b) Explain four layers of web application architecture of node.js [04]
- (c) Create node.js application which performs delete and update operation on Employee table. Employee table contains EId, Ename, Edept and Esalary. [04]

**---Best of Luck---**

## – Bloom's Taxonomy Report –

**Sub: Advance Web Technology (01IT0701)****Sem. 7****Branch: CE/IT****Que. Paper weightage as per Bloom's Taxonomy**

LEVEL	% of weightage	Question No.	Marks of Que.
Remember/Knowledge	20%	1a, 1b	20
Understand	16%	2a, 3a, OR3a	16
Apply	32%	2b, OR2b, 3b,3c, OR3b, OR3c, 4a, OR4a, 6a, OR6a	32
Analyze	0.0%	-	0
Evaluate	8%	5c, OR5c, 6b, OR6b	8
Higher order Thinking/ Creative	24%	4b, OR4b, 5a,5b, OR5a, OR5b,6c, OR6c	24

**Chart/Graph of Bloom's Taxonomy**