

Subject : ADVANCED WEB TECHNOLOGIES (01IT0701)**Date : 16-May-2022****Time : 3 Hours****Total Marks : 100****Instructions :**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Que.1 Answer the following objectives**[10]****(A)**

- (1) Which component of MVC mainly deals with the Database?
 - a) Model
 - b) Controller
 - c) Application Server
 - d) View
- (2) Which extension is used to save Node.js files?
 - a) .js
 - b) .node
 - c) .javascript
 - d) .txt
- (3) Nodejs is _____
 - a) asynchronous
 - b) synchronous
 - c) blocking I/O model
 - d) None of the options
- (4) Response.writeHead() method in node.js _____
 - a) sends a response header to the client request
 - b) sends a header to the server
 - c) sets a single header value for implicit headers
 - d) None of the options
- (5) For what npm stands?
 - a) Node Project Manager
 - b) New Project Manager
 - c) Node Package Manager
 - d) New Package Manager
- (6) Which function is used to include modules in Node.js?
 - a) include()
 - b) require()

- c) attach()
 - d) None of the options
- (7) Which of the following statement is valid to use a Node module HTTP in a Node-based application?
- a) var http = require("http");
 - b) var http = import("http");
 - c) package http;
 - d) import http;
- (8) response.setHeader() method in Node.js ____
- a) sends a response header to the client request
 - b) sends a header to the server
 - c) sets a single header value for implicit headers
 - d) None of the options
- (9) Nodejs is ____
- a) single-threaded
 - b) event-driven
 - c) non-blocking I/O model
 - d) All of the options
- (10) Which statement executes the code of the sample.js file?
- a) nodejs sample.js
 - b) node sample.js
 - c) sample.js
 - d) None of the above

Que.1 Answer the following questions.

[10]

(B)

- (1) How many types of API functions are there in Node.js?
- (2) Define NPM
- (3) Why Node.js is single-threaded?
- (4) List out functionalities of NPM.
- (5) What is Node.js?
- (6) Which function will convert a JavaScript object to a JSON string?
- (7) Define Full Form of MVC
- (8) Define the drawback of the Multithreaded model.
- (9) What is a Web Server?
- (10) Which command is used to import external libraries?

Que.2

- (A) Explain Web services.

[8]

- (B) Explain Http Request and Response objects available in Laravel with example code that demonstrates all its methods available for use. [8]

OR

- (B) Explain Node Js, NPM, Single Threaded and Multi Threaded Model [8]

Que.3

- (A) Explain Encapsulation concept with example [8]
- (B) How to create a simple server in Node js that returns Hello World? [4]
- (C) Demonstrate how will you call member functions of a class in PHP? [4]

OR

- (A) Demonstrate how to use session with the help of a sample login application. Define its appropriate routing information. [8]
- (B) Why the composer is used in Laravel? [4]
- (C) What are the advantages of using PHP Regular expressions? [4]

Que.4

- (A) Explain PCRE functions with example. [8]
- (B) Explain Mail function with example [8]

OR

- (A) Demonstrate the example of Run time Polymorphism(Method Overriding) with a PHP Program. [8]
- (B) Explain what is a Controller in Laravel with an example? Show how to define the routes for accessing various functions declared in the controller. Also demonstrate how to pass parameters to the controller. [8]

Que.5

- (A) Illustrate Traits In Php with example. [6]
- (B) What is database migration. Show with example how to create migrations via artisan? Create a database and perform migrations for a new project. [6]
- (C) What is yield in Laravel? [4]

OR

- (A) How to use any API in your application? Give example of any one API(with code) [6]
- (B) Explain in brief Navigation in Node Js [6]
- (C) What are the features of Laravel? [4]

Que.6

- (A) Demonstrate the use of Object cloning with a code example. [8]
- (B) Explain Maintenance Mode in Laravel. [4]
- (C) List the types of applications you can build using Node js. [4]

OR

- (A) Explain REPL and Web Server in Node js [8]
- (B) Show the code to create a server and execute it [4]
- (C) What is a MVC framework with respect to Laravel? [4]

---Best of Luck---

MARWADI UNIVERSITY
MU-FOT
CE-FOT1 (MU), IT-FOT1 (MU)
Semester 7 - Summer

Subject : ADVANCED WEB TECHNOLOGIES (01IT0701)

Date : 16-May-2022

Time : 3 Hours

Total Marks : 100

Difficulty Level	Weightage Recommended Actual		No of Question	Total Marks	Question List
High	20	21.51	6	37	1(A), 3(A), 4(A), 5(A), 6(A)
Low	20	18.60	16	32	1(A), 1(B), 2(B), 3(C), 5(C), 6(C)
Medium	60	59.88	23	103	1(A), 1(B), 2(A), 2(B), 3(A), 3(B), 3(C), 4(A), 4(B), 5(B), 5(C), 6(A), 6(B), 6(C)

Module Name	Weightage Recommended Actual		No of Question	Total Marks	Question List
Unit-1 : Object Oriented PHP	20	19.77	5	34	3(A), 3(C), 4(A), 5(A), 6(A)
Unit-2 : Advance PHP	20	19.77	5	34	2(A), 3(C), 4(A), 4(B), 5(A)
Unit-3 : PHP MVC Framework - Laravel	30	29.65	10	51	1(A), 2(B), 3(A), 3(B), 4(B), 5(B), 5(C), 6(B), 6(C)
Unit-4 : Node.js	30	30.81	25	53	1(A), 1(B), 2(B), 3(B), 5(B), 6(A), 6(B), 6(C)

Blooms Taxonomy	Weightage Recommended Actual		No of Question	Total Marks	Question List
Remember / Knowledge	10	15.12	20	26	1(A), 1(B), 3(C), 5(C)
Understand	20	56.40	17	97	1(B), 2(A), 2(B), 3(A), 3(B), 4(A), 4(B), 5(B), 5(C), 6(A), 6(B), 6(C)
Apply	25	25.00	7	43	1(A), 3(A), 3(C), 4(A), 4(B), 5(A), 6(A)
Analyze	25	3.49	1	6	5(A)
Evaluate	10	0.00	0	0	
Higher order Thinking	10	0.00	0	0	

