

No. of Printed Pages : 8

A10.2-R5 : FULL STACK WEB DEVELOPMENT USING MVC FRAMEWORK

DURATION : 03 Hours

MAXIMUM MARKS : 100

OMR Sheet No. :					
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Roll No. :

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Answer Sheet No. :

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Name of Candidate : _____ ; **Signature of Candidate :** _____

INSTRUCTIONS FOR CANDIDATES :

- Carefully read the instructions given on Question Paper, OMR Sheet and Answer Sheet.
- Question Paper is in English language. Candidate has to answer in English language only.
- There are **TWO PARTS** in this Module/Paper. **PART ONE** contains **FOUR** questions and **PART TWO** contains **FIVE** questions.
- **PART ONE** is Objective type and carries **40** Marks. **PART TWO** is Subjective type and carries **60** Marks.
- **PART ONE** is to be answered in the **OMR ANSWER SHEET** only, supplied with the question paper, as per the instructions contained therein. **PART ONE** is **NOT** to be answered in the answer book for **PART TWO**.
- Maximum time allotted for **PART ONE** is **ONE HOUR**. Answer book for **PART TWO** will be supplied at the table when the Answer Sheet for **PART ONE** is returned. However, Candidates who complete **PART ONE** earlier than one hour, can collect the answer book for **PART TWO** immediately after handing over the Answer Sheet for **PART ONE** to the Invigilator.
- **Candidate cannot leave the examination hall/room without signing on the attendance sheet and handing over his/her Answer Sheet to the invigilator. Failing in doing so, will amount to disqualification of Candidate in this Module/Paper.**
- After receiving the instruction to open the booklet and before answering the questions, the candidate should ensure that the Question Booklet is complete in all respects.

DO NOT OPEN THE QUESTION BOOKLET UNTIL YOU ARE TOLD TO DO SO.

PART ONE

(Answer all the questions. Each question carries ONE mark)

1. Each question below gives a multiple choice of answers. Choose the most appropriate one and enter in the "OMR" answer sheet supplied with the question paper, following instructions therein.

(1x10)

1.1 In the model-view-controller (MVC) architecture, the view corresponds to the :

- (A) Interface Layer
- (B) Data-access Layer
- (C) Domain Object Layer
- (D) Business-logic Layer

1.2 The term in the MVC architecture that receives event is called :

- (A) Receiver
- (B) Controller
- (C) Transmitter
- (D) Modulator

1.3 What CakePHP component is not part of the View layer ?

- (A) Element
- (B) Helper
- (C) Layout
- (D) Behavior

1.4 In _____ model stores the business logic and application data. It passes data to the view.

- (A) Object-Relational Mapping
- (B) Model View Controller (MVC)
- (C) Command Link Interface
- (D) Object Random Map

1.5 Joomla is an open source _____.

- (A) Content management system
- (B) Data Management system
- (C) Testing tool
- (D) Content arrangement system

1.6 Which of the following is not the commonly used helpers of CakePHP ?

- (A) SessionHelper
- (B) TextHelper
- (C) TimeHelper
- (D) LoginHelper

1.7 What is the first file that gets loaded when you run an application using CakePHP ?

- (A) Index.php
- (B) Bootstrap.php
- (C) Core.php
- (D) Database.php

1.8 Variable name in PHP starts with _____.

- (A) ! (Exclamation)
- (B) \$ (Dollar)
- (C) & (Ampersand)
- (D) # (Hash)

1.9 Which of the following is used to display the output in PHP ?

- (A) echo
- (B) write
- (C) exit
- (D) println

1.10 Which directory is the public document root of your application ?

- (A) webroot
- (B) vendor
- (C) tmproot
- (D) testroot

2. Each statement below is either TRUE or FALSE. Choose the most appropriate one and enter your choice in the "OMR" answer sheet supplied with the question paper, following instructions therein. (1x10)

2.1 CakePHP will dynamically create a model object for you if it cannot find a corresponding file in/app/Model.

2.2 CakePHP is an open source MVC framework.

2.3 The extension.ctp can be used as the name of the View file.

2.4 Global is not a variable scope in PHP.

2.5 CakeResponse is the default response class in CakePHP.

2.6 "CREATE DATABASE db_name" statement is used to create database in MySQL.

2.7 MySQL maintains metadata in the database meta_sql.

2.8 \$this keyword is used to refer to properties or methods within the class itself.

2.9 If your object must inherit behavior from a number of sources, you must use an interface.

2.10 Function names are case-sensitive in PHP.

3. Match words and phrases in column X with the closest related meaning / word(s) / phrase(s) in column Y. Enter your selection in the "OMR" answer sheet supplied with the question paper, following instructions therein. (1x10)

X		Y	
3.1	Function is used to determine that a variable is set or not	A.	Authorization
3.2	The correct syntax for defining functions in PHP.	B.	Magic Function
3.3	A function in PHP which starts with __ (double underscore) is known as	C.	function __construct()
3.4	PHP recognizes constructors by the name	D.	isset()
3.5	Helper use to create a forms quickly in CakePHP	E.	specify multiple values in a WHERE clause
3.6	SQL keyword IN is used to	F.	function f_name() {}
3.7	SELECT DISTINCT command returns	G.	Callback functions
3.8	Hooks in CakePHP	H.	Event
3.9	A stored program associated with a schedule is	I.	fun f_name() {}
3.10	Access control lists component provide	J.	Inbuilt Function
		K.	FormHelper
		L.	returns only distinct values in the result set
		M.	Multiple values in the result set

4. Each statement below has a blank space to fit one of the word(s) or phrase(s) in the list below. Choose the most appropriate option, enter your choice in the "OMR" answer sheet supplied with the question paper, following instructions therein. (1x10)

A.	Action Filters	B.	NonAction Attribute	C.	
D.	connect()	E.	Routing	F.	mysql_connect()
G.	Six	H.	Four	I.	Username
J.	Password	K.	array_push	L.	where
M.	text				

- 4.1 In MVC, _____ help you to execute logic while MVC action is executed or it is executing.
- 4.2 _____ map the URL with the controller in MVC.
- 4.3 _____ is used to prevent public method to be treated as the action method in controller.
- 4.4 _____ method is used to connect MySQL database with PHP.
- 4.5 There are _____ level of heading in HTML.
- 4.6 SQL injection occurs at the stage when user asked to enter _____.
- 4.7 _____ function is used to add value to the end of array in PHP.
- 4.8 _____ keyword in SQL used to extract only those records that fulfill a specified condition.
- 4.9 _____ default type of 'type' attribute of <input> element in HTML.
- 4.10 _____ HTML tag is used to create an unordered list.

PART TWO

(Answer any FOUR questions)

5. (a) Explain the folder structure of CakePHP.
- (b) Differentiate between abstract class and Interface in PHP with example. (8+7)
6. (a) Explain the PHP Session with suitable example.
- (b) Explain the uses of database indexes in detail. Write a syntax to create and drop index in MySQL. (8+7)
7. (a) Explain the steps to connect with MySQL using PHP.
- (b) Explain the Form helper of CakePHP with suitable example. (8+7)
8. (a) Explain the concept of Constructor and Destructor in PHP with suitable example.
- (b) What is MVC ? Explain various MVC components in detail. (7+8)

9. (a) What is Inheritance ? Explain the role of protected access modifier in PHP with example.
- (b) What is SQL injection ? How to prevent SQL injection attack in web application ?
- (c) Explain decision making statements in PHP with suitable example. (5+5+5)

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SPACE FOR ROUGH WORK

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