

Sl. No.

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

अवधि : 03 घंटे

DURATION : 03 Hours

अधिकतम अंक : 100

MAXIMUM MARKS : 100

ओएमआर शीट सं. :  
OMR Sheet No. :

रोल नं. :

Roll No. :

उत्तर-पुस्तिका सं. :

Answer Sheet No. :

परीक्षार्थी का नाम :

Name of Candidate :

परीक्षार्थी के हस्ताक्षर :

;Signature of Candidate :

**परीक्षार्थियों के लिए निर्देश :****Instructions for Candidate :**

कृपया प्रश्न-पुस्तिका, ओएमआर शीट एवं उत्तर-पुस्तिका में दिये गए निर्देशों को ध्यानपूर्वक पढ़ें।	Carefully read the instructions given on Question Paper, OMR Sheet and Answer Sheet.
प्रश्न-पुस्तिका की भाषा अंग्रेजी है। परीक्षार्थी केवल अंग्रेजी भाषा में ही उत्तर दे सकता है।	Question Paper is in English language. Candidate can answer in English language only.
इस मॉड्यूल/पेपर के दो भाग हैं। भाग एक में चार प्रश्न और भाग दो में पाँच प्रश्न हैं।	There are TWO PARTS in this Module/Paper. PART ONE contains FOUR questions and PART TWO contains FIVE questions.
भाग एक "वैकल्पिक" प्रकार का है जिसके कुल अंक 40 हैं तथा भाग दो "व्यक्तिपरक" प्रकार का है और इसके कुल अंक 60 हैं।	PART ONE is Objective type and carries 40 Marks. PART TWO is Subjective type and carries 60 Marks.
भाग एक के उत्तर, ओएमआर उत्तर-पुस्तिका पर ही दिये जाने हैं। भाग दो की उत्तर-पुस्तिका में भाग एक के उत्तर नहीं दिये जाने चाहिए।	PART ONE is to be answered in the OMR ANSWER SHEET only. PART ONE is NOT to be answered in the answer book for PART TWO.
भाग एक के लिए अधिकतम समय सीमा एक घण्टा निर्धारित की गई है। भाग दो की उत्तर-पुस्तिका, भाग एक की उत्तर-पुस्तिका जमा कराने के पश्चात् दी जाएगी। तथापि, निर्धारित एक घंटे से पहले भाग एक पूरा करने वाले परीक्षार्थी भाग एक की उत्तर-पुस्तिका निरीक्षक को सौंपने के तुरंत बाद, भाग दो की उत्तर-पुस्तिका ले सकते हैं।	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.
परीक्षार्थी, उपस्थिति-पत्रिका पर हस्ताक्षर किए बिना और अपनी उत्तर-पुस्तिका, निरीक्षक को सौंपे बिना, परीक्षा हॉल/कमरा नहीं छोड़ सकते हैं। ऐसा नहीं करने पर, परीक्षार्थी को इस मॉड्यूल/पेपर में अयोग्य घोषित कर दिया जाएगा।	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.
प्रश्न-पुस्तिका को खोलने के निर्देश मिलने के पश्चात् एवं उत्तर लिखना आरम्भ करने से पहले उम्मीदवार जाँच कर यह सुनिश्चित कर लें कि प्रश्न-पुस्तिका प्रत्येक दृष्टि से संपूर्ण है।	After receiving the instruction to open the booklet and before starting to answer the questions, the candidate should ensure that the Question Booklet is complete in all respect.

जब तक आपसे कहा न जाए, तब तक प्रश्न-पुस्तिका न खोलें।

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

**PART ONE**

**(Answer all 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** Term in MVC architecture that receives events is called :

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

**1.2** In MVC, which function helps you to execute logic while MVC action is executed or it is executing :

- (A) beforeFilter
- (B) afterFilter
- (C) ActionFilters
- (D) ControlFilter

**1.3** CSRF protection is provided in CakePHP 2.x in :

- (A) Security Plugin
- (B) Security Component
- (C) Security Methods
- (D) All of the above

**1.4** Which one of the following methods can be used to diagnose and display information about a MySQL connection error ?

- (A) connect\_errno( )
- (B) connect\_error( )
- (C) mysqli\_connect\_errno( )
- (D) mysqli\_connect\_error( )

**1.5** Which of the following PHP functions can be used to build a function that accepts any number of arguments ?

- (A) func\_get\_argv( )
- (B) func\_get\_argc( )
- (C) get\_argv( )
- (D) get\_argc( )

**1.6** How to access a private member function of a class ?

- (A) Using address of member function
- (B) Using object pointer
- (C) Using object of a class
- (D) Using class address

**1.7** Which among the following is the main characteristic of class ?

- (A) Object creation
- (B) Encapsulation
- (C) Polymorphism
- (D) Inheritance

1.8 The file created by the server to store the database attribute is :

- (A) db.otp
- (B) db.zip
- (C) db.opt
- (D) db.cls

1.9 Which command is used for the table definition in MySQL ?

- (A) DESC table\_name;
- (B) DESC table\_name
- (C) DESC
- (D) None of the above

1.10 In CakePHP, validation rules are defined in :

- (A) Controller
- (B) Model
- (C) View
- (D) Helper

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 does not support composite primary keys.

2.2 MySQL returns an integer.

2.3 Controller directly refers the view or manipulates it.

2.4 When linking to a static MySQL C client library, the client library and the client application must use the same compiler option.

2.5 The string class deals with string of only character type.

2.6 `$this->FormController ->create()` is used to create a form in CakePHP.

2.7 A function in PHP which starts with `_ _` (double underscore) is known as user-defined functions.

2.8 `index.php` is the first file that gets loaded when you run an application using a CakePHP.

2.9 Arrays cannot have associative indices in PHP.

2.10 `mysql_fetch_row()` returns the structure.

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	Hooks in CakePHP	A.	event
3.2	The default function for a Controller is	B.	session
3.3	A stored program associated with a schedule is	C.	as a Wildcard
3.4	The feature of OOP which illustrates the code reusability	D.	<code>\$this-&gt;request-&gt;data</code>
3.5	Commonly used components of CakePHP	E.	callback functions
3.6	When a user uses a form to POST data to your application, that information is available in	F.	<code>set()</code>
3.7	The single instruction in the action uses which function to pass data from the controller to view ?	G.	Text file
3.8	The SQL Keyword BETWEEN is used	H.	index function
3.9	Error logging is similar to error reporting but causes error events to be recorded at a	I.	Superglobal Arrays
3.10	For accessing global variables anywhere from script, PHP uses	J.	inheritance
		K.	Super Keyword
		L.	Function Overloading
		M.	Interface

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.	Delete function	B.	polymorphism	C.	302
D.	information_schema	E.	__construct()	F.	-> (arrow)
G.	.(dot)	H.	URL rewriting	I.	outside
J.	304	K.	Filecache	L.	string
M.	Destructor function				

- 4.1 In PHP, \_\_\_\_\_ operator is used to access the property of an object.
- 4.2 \_\_\_\_\_ is the default cache Engine in CakePHP.
- 4.3 \_\_\_\_\_ function is called when an object goes out of scope.
- 4.4 The date() function returns \_\_\_\_\_ representation of the current date and/or time.
- 4.5 In MVC, RedirectToAction() Method represents the status code \_\_\_\_\_.
- 4.6 If same message is passed to objects of several different classes and all of those can respond in different way, this feature is called \_\_\_\_\_.
- 4.7 The special database that always exists after setting up MySQL in a computer is \_\_\_\_\_.
- 4.8 PHP recognizes constructors by the name \_\_\_\_\_.
- 4.9 If the session.use\_cookie is set to 0, this result in use of \_\_\_\_\_.
- 4.10 The authenticationFile.txt, the file which stores the username and password should be stored \_\_\_\_\_ the server document root.

**PART TWO**

**(Answer any FOUR questions)**

5. (a) What is MVC in CakePHP ? Explain the structure of MVC with diagram.
- (b) What do you understand by Zend Framework ? Why is it used ?
- (c) Differentiate between Mysql\_fetch\_object and Mysql\_fetch\_array. **(6+6+3)**
6. (a) What is session in CakePHP ? How is it used in CakePHP ?
- (b) What is a helper ? List some common helpers name used in CakePHP.
- (c) Which function is used in PHP to check the data type of any variable ? Explain with example. **(7+5+3)**
7. (a) What are constructor and destructor in PHP ? Explain with example.
- (b) Explain the GET and POST methods with the help of example.
- (c) How can a connection be established with the MySQL Server using PHP ? **(5+6+4)**

8. (a) With the help of an example, differentiate between Session and State.
- (b) What is the difference between for loop and foreach loop in PHP ? Explain with the help of example.
- (c) What is SQL injection ? How do you prevent them ? **(5+5+5)**
9. (a) How many types of Arrays are used in PHP ? Explain each with the help of example.
- (b) Write short notes on the following :
- (i) Pagination
- (ii) Cookie
- (iii) Creating global variables in CakePHP **(6+9)**

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SPACE FOR ROUGH WORK

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