Sl.	No.
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## A10.2-R5 : Full Stack Web Development using MVC Framework

DURATION : 03 Hours	MAXIMUM MARKS : 100							
	OMR Sheet No. :							
Roll No. :	swer Sheet No. :							
Name of Candidate :; Signature of Candidate :								
INSTRUCTIONS FOR CANDIDATES :								
Carefully read the instructions given on Question Pap	per, OMR Sheet and Answer Sheet.							
Question Paper is in English language. Candidate ha	as to answer in English language only.							
<ul> <li>There are TWO PARTS in this Module/Paper. PART ONE contains FOUR questions and PART TWO contains FIVE questions.</li> </ul>								
• <b>PART ONE</b> is Objective type and carries <b>40</b> Marks. <b>PART TWO</b> is Subjective type and carries <b>60</b> Marks.								
• <b>PART ONE</b> is to be answered in the <b>OMR ANSWER SHEET</b> only, supplied with the question paper, as per the instructions contained therein. <b>PART ONE</b> is <b>NOT</b> to be answered in the answer book for <b>PART TWO</b> .								
<ul> <li>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.</li> </ul>								
<ul> <li>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.</li> </ul>								
After receiving the instruction to open the booklet and should ensure that the Question Booklet is complete								

## 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** How many functions does PHP offer for searching and modifying strings using Perl-compatible regular expressions ?
  - (A) 7
  - (B) 8
  - (C) 9
  - (D) 10
- **1.2** Suppose we have two compare two strings which of the following function/functions can you use ?
  - (i) strcmp()
  - (ii) strcasecmp()
  - (iii) strspn()
  - (iv) strcspn()
  - (A) (i) and (ii)
  - (B) (iii) and (iv)
  - (C) None of the mentioned
  - (D) All of the mentioned
- **1.3** Which one of the following functions will convert a string to all uppercase ?
  - (A) strtoupper()
  - (B) uppercase()
  - (C) str\_uppercase()
  - (D) struppercase()

**1.4** What will be the output of the following PHP code ?

< ?php

\$title = "O'malley wins the heavyweight
championship!";

echo ucwords(\$title);

?>

- (A) O'Malley Wins The Heavyweight Championship!
- (B) O'malley Wins The Heavyweight Championship!
- (C) O'Malley wins the heavyweight championship!
- (D) o'malley wins the heavyweight championship!
- **1.5** What will be the output of the following PHP code ?

< ?php

echo str\_pad("Salad", 5)." is good.";

?>

- (A) SaladSaladSaladSaladSalad is good
- (B) is good SaladSaladSaladSaladSalad
- (C) is good Salad
- (D) Salad is good
- **1.6** Which one of the following functions can be used to concatenate array elements to form a single delimited string ?
  - (A) explode()
    - (B) implode()
  - (C) concat()
  - (D) concatenate()

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1.7	<ul><li>Which one of the following functions finds the last occurrence of a string, returning its numerical position ?</li><li>(A) strlastpos()</li><li>(B) strpos()</li></ul>	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)
	<ul><li>(C) strlast()</li><li>(D) strrpos()</li></ul>	2.1	The extension of php file is .cs.
1.8	What will be the output of the following PHP code ? < ?php \$url = "nachiketh@example.com";	2.2	Multilevel inheritance is supported in MVC
	<pre>echo ltrim(strstr(\$url, "@"),"@"); ?&gt;</pre>	2.3	Instance of Static class can be created
	<ul> <li>(A) nachiketh@example.com</li> <li>(B) nachiketh</li> <li>(C) nachiketh@</li> <li>(D) example.com</li> </ul>	2.4	Interface can have internal method as well
<b>1.9</b> PHP has long supported two re expression implementations know		2.5	A concrete class can inherit static class
	(i) Perl (ii) PEAR (iii) Pearl	2.6	\$.ajax method is used to call mvc controller action method from PHP code
	<ul> <li>(iv) POSIX</li> <li>(A) (i) and (ii)</li> <li>(B) (ii) and (iv)</li> <li>(C) (i) and (ir)</li> </ul>	2.7	jquery is javascript library
	<ul><li>(C) (i) and (iv)</li><li>(D) (ii) and (iii)</li></ul>	2.8	Dll is self executable
1.10	<ul><li>Which of the following view file types are supported in MVC ?</li><li>(A) .cshtml</li><li>(B) .vbhtml</li></ul>	2.9	Data Annotation attributes can be used for data validation in MVC.
	<ul><li>(C) .aspx</li><li>(D) All of the above</li></ul>	2.10	Session never gets expired on its own in MVC.
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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)

	Column X		Column Y
3.1	DI	A.	Class A
			Class B Class C
3.2	Example of Multilevel	B.	Dependency Injection
	Inheritance	2.	z ep endeney zijeenen
	lineinunee		
3.3	Laravel	C.	Base
3.4	float: left;	D.	a self-contained component which
			consists of methods and properties
3.5	keyword is used to refer baseclass	E.	Used to create object in memory
	constructor to subclass constructor	<b></b> .	coed to create object in memory
2 (		F.	Class A
3.6	what is class	г.	Class A
			Class B
			Class C
3.7	Wordpress	G.	CMS in PHP
3.8	Example of Multiple Inheritance	H.	Example in the
5.0	Example of Multiple Inheritance	п.	Framework in php
3.9	what is object	I.	The element floats to the left of its
			container
3.1	Constructor	J.	an entity that determines how an object
			will behave and what the object will
			contain
		K.	JavaScript Library
		T	
		L.	Open source
		M.	Structure

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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.

Α	web browser	В	SECOND	С	Aborted	D	method overriding
Е	url: "{controller}/ {action}/ {id}"	F	pilot	G	MySQL	Н	Unique index
Ι	module interface	J	Set difference	K	method overloading	L	4NF
М	THIRD						

- **4.1** \_\_\_\_\_\_ is an Open Source DBMS.
- **4.2** When a primary key is defined in the table, DBMS automatically creates a \_\_\_\_\_\_ on a primary key column.
- **4.3** In \_\_\_\_\_\_ normal form is the partial dependency removed.
- **4.4** \_\_\_\_\_\_ problem caused by independent multivalued dependencies is eliminated in which of the normal form ?
- **4.5** \_\_\_\_\_\_ is not the relational algebra operator.
- **4.6** \_\_\_\_\_\_ is a default route pattern in MVC.
- **4.7** Method with same name but different signature is example of \_\_\_\_\_\_.
- **4.8** A transaction state changes from active to\_\_\_\_\_, after the transaction has been rolled back and the database restored to its state prior to the start of the transaction.
- **4.9** HTML web pages can be read and rendered by\_\_\_\_\_.
- **4.10** Method with same name and same signature is example of \_\_\_\_\_\_.

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## example. (Answer any FOUR questions) How many types of arrays are available (b) 5. What is difference between 3-layer (a) in PHP? Explain in detail. architecture and MVC architecture ? (7+8)What is difference between ASP.NET (b) 9. (a) Explain decision making concepts in Web Form and ASP.NET MVC ? php with examples. Write a program to find all prime (b) What is Tempdata in ASP.NET MVC ? (c) number between 1-100 (5+5+5)How Model, View and Controller (c) communicate with each other in 6. What is method overloading ? Explain (a) ASP.NET MVC ? with example. (5+5+5)What is the difference between (b) -000reference type and value type? Explain with example. Write a program to check if given input (c) string is palindrome or not using PHP code. (4+5+6)7. Why exception handling is required ? (a) Explain System Divide By Zero Exception with example. What is static class explain with (b) example. (7+8)SPACE FOR ROUGH WORK A10.2-R5/01-23 Page 6

8.

(a)

PART TWO

Explain advantage of inheritance.

Explain multilevel inheritance with

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