

No. of Printed Pages : 8

**A10.2-R5.1 : 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.

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

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**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** Which namespace is used for ASP.NET MVC ? Or which assembly is used to define the MVC framework ?

- (A) System.Web.Mvc
- (B) System.Web.Mvc
- (C) System.Web.Controller
- (D) System.Web.Model

**1.2** MVC stands for \_\_\_\_\_.

- (A) Model, Vision & Control
- (B) Model, View & Controller
- (C) Model, ViewData & Controller
- (D) Model, Data & Controller

**1.3** Which of following is TRUE ?

- (A) The controller redirects incoming request to model.
- (B) The controller executes an incoming request.
- (C) The controller controls the data.
- (D) The controller render html to view.

**1.4** The model is a \_\_\_\_\_.

- (A) Shape of data
- (B) Html content
- (C) Collection of data
- (D) Type of data

**1.5** Which of the following is a type of view in MVC ?

- (A) Partial view
- (B) Executable view
- (C) Data view
- (D) Designer view

**1.6** Which of the following is TRUE ?

- (A) Action method can be static method in a controller class.
- (B) Action method can be private method in a controller class.
- (C) Action method can be protected method in a controller class.
- (D) Action method must be public method in a controller class.

**1.7** Which of the following are ActionSelectors ?

- (A) ActionName
- (B) NonAction
- (C) ActionVerbs
- (D) All of the above

1.8 <HR> tag is used for :

- (A) Line Break
- (B) Horizontal row
- (C) Heading
- (D) Underline

1.9 What does the CSS stand for ?

- (A) Creating Style Sheets
- (B) Cascading Style Sheets
- (C) Computer Style Sheets
- (D) Colorful Style Sheets

1.10 Which of the following view file types are supported in MVC ?

- (A) .cshtml
- (B) .vbhtml
- (C) .aspx
- (D) All of the above

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 The extension of CSS file is .cs.
- 2.2 Multiple inheritance is supported in MVC
- 2.3 Static class can not be inherited
- 2.4 Interface can have protected method as well
- 2.5 Php is more secured than MVC
- 2.6 We can not call mvc controller action method from Php code
- 2.7 JavaScript can be used to validate input data in HTML forms before sending the content to the server.
- 2.8 Dll called as dynamic link library.
- 2.9 DataModel attributes can be used for data validation in MVC.
- 2.10 Cookie is more secured than session for storing customer data

3. Match words and phrases in column X with the closest related meaning / words(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	CDN	A.	Example of Multilevel Inheritance
3.2	<pre>           Class A          /   \         /     \        /       \       /         \      /           \     /             \    /               \   /                 \  /                   \ /                     \ Class B               Class C           </pre>	B.	Php Framework
3.3	CodeIgniter	C.	Javascript Framework
3.4	float: right;	D.	Used for asynchronous request
3.5	Jquery	E.	Used to free object from memory
3.6	Angular	F.	Example of Multiple Inheritance
3.7	Magento	G.	CMS in PHP
3.8	<pre>           Class A                                     ↓          Class B                                     ↓          Class C           </pre>	H.	Content Delivery Network
3.9	Ajax	I.	The element floats to the right of its container
3.10	Destructor	J.	Javascript Library
		K.	Encapsulation
		L.	Session
		M.	JSP

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	HTML Tag	B	<image>	C	<HTML> tag
D	PHP	E	Method Overloading	F	pilot
G	h1	H	web browser	I	module interface
J	url: "{controller}/{action}/{id}"	K	Markup	L	<strong>
M	<HR>				

- 4.1 ----- is a default route pattern in MVC.
- 4.2 ----- is an example of compile time polymorphism.
- 4.3 Zend and Laravel are framework of -----.
- 4.4 HTML is ----- language.
- 4.5 Fundamental HTML Block is known as -----.
- 4.6 Apart from <b> tag, ----- tag makes text bold.
- 4.7 ----- should be the first tag in any HTML document.
- 4.8 ----- tag is used to display a picture in a HTML page.
- 4.9 HTML web pages can be read and rendered by -----.
- 4.10 ----- HTML tag produces the biggest heading.

## PART TWO

(Answer **any FOUR** questions)

5. (a) Explain MVC design pattern ?
- (b) What is the advantage of MVC over asp.net ?
- (c) What is ViewModel in ASP.NET MVC ? (5+5+5)
6. (a) What is the difference between cookie and session ?
- (b) What is the difference between list and dictionary ? Explain with example.
- (c) Write a JavaScript function to print current date in yyyy/mm/dd format. (4+5+6)
7. (a) What is the difference between exception and error ? How we can handle exception in code ? Explain with example.
- (b) What is the difference between abstract class and interface ? (7+8)
8. (a) What are the types of polymorphism and inheritance ?
- (b) Write a program for method overriding. (7+8)

9. (a) Explain important directories used in a common Laravel application.
- (b) Explain the concept of contracts in Laravel.
- (c) Explain traits in Laravel. (5+5+5)

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**SPACE FOR ROUGH WORK**

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