ROLL NO.

Code: DC60

Subject: JAVA AND WEB PROGRAMMING

# **Diplete – CS**

**Time: 3 Hours** 

## **DECEMBER 2014**

Max. Marks: 100

 $(2 \times 10)$ 

PLEASE WRITE YOUR ROLL NO. AT THE SPACE PROVIDED ON EACH PAGE IMMEDIATELY AFTER RECEIVING THE QUESTION PAPER.

### **NOTE: There are 9 Ouestions in all.**

- Question 1 is compulsory and carries 20 marks. Answer to Q.1 must be written in the space provided for it in the answer book supplied and nowhere else.
- The answer sheet for the 0.1 will be collected by the invigilator after 45 minutes of the commencement of the examination.
- Out of the remaining EIGHT Questions, answer any FIVE Questions, selecting THREE questions from Part A and TWO questions from Part B. Each question carries 16 marks.
- Any required data not explicitly given, may be suitably assumed and stated.

#### **Q.1** Choose the correct or the best alternative in the following:

a. Java Source Code is compiled into \_\_\_\_\_

(A) .exe	<b>(B)</b> Source code
( <b>C</b> ) .obj	<b>(D)</b> byte code

b. Which of the following is used to interpret and execute the Java Applet classes hosted by HTML?

(A) Applet screen	( <b>B</b> ) AppletViewer
(C) AppletWatcher	( <b>D</b> ) AppletShow

c. Which of the following is not a keyword in Java?

<b>(A)</b>	finalize	<b>(B</b> )	boolean
<b>(C)</b>	assert	<b>(D</b> )	abstract

d. Which of the following is used to see the details of the compilation?

- (A) javac –verbose TestExample.java
- (B) javac –detail TestExample.java
- (C) javac –debug TestExample.java
- (**D**) None of the above

e. What is the use of <alt> value in img tag?

- (A) Alternative text for an image
- (C) Caption for an image
- (**B**) Alternative source for an image
- (**D**) All of these

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	(C) Strict	( <b>D</b> ) Frameset	
	(A) Loose	( <b>B</b> ) Transitional	
j.	j. Which doctype should be added to your XHTML document, if you use CSS i your document?		
	<ul><li>(A) doctype, html and body</li><li>(C) doctype, html, head, and body</li></ul>	<ul><li>(B) doctype, html, head, body, and title</li><li>(D) css, html, head, body, and title</li></ul>	
i.	i. Which elements are mandatory in an XHTML document?		
	<ul><li>(A) Type selector</li><li>(C) Local selector</li></ul>	<ul><li>(B) Universal selector</li><li>(D) Descendant selector</li></ul>	
h.	h. Which is not the selector type of CSS?		
	<ul><li>(A) Content</li><li>(C) Language</li></ul>	<ul><li>(B) Definition</li><li>(D) None of these</li></ul>	
g.	HTML tags are used to describe:		
	<ul> <li>(A) <meta/></li> <li>(C) <metadata></metadata></li> </ul>	<ul> <li>(B) <meta name=" "/></li> <li>(D) <metadata name=" "></metadata></li> </ul>	
f.	. Which of the following is correct regarding meta tag in HTML?		

## PART A

Attempt any THREE questions. Each question carries 16 marks.

- Q.2 a. What is Java Runtime Environment? Explain the key differences between C++ and Java.
  - b. Illustrate the concept of passing command line arguments by a Java Program.
  - c. Explain the terms:
    (i) JVM
    (ii)Web Browser and its examples
- Q.3 a. "One object in Java can be assigned as reference to another object of the same type." To explain this concept write a complete Java program and show how a reference object works? (8)
  - b. What is an instance variable? Explain how an instance variable of a class can have different values for each object of that class? (8)
- Q.4 a. What is encapsulation? Explain, how encapsulation provides modularity and information hiding? (8)

(6) (4)

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	b.	List the eight basic data types used in JAVA. Give examples.	(4)			
	c.	Compare in terms of their functions, the following pairs of statements: (i) While and do while (ii) While and for (iii) break and continue	(4)			
Q.5	a.	What is the difference between abstract class and interface? Explain example how and when to use abstract class and interface?	with (8)			
	b.	Does java support multiple interitance? Justify your answer with an examp	le. (8)			
Q.6	a.	What is an exception? Write an exception subclass which throws an except the value of a variable 'age' passed as argument to a method is less than 20	tion if			
	b.	Explain various Stream Classes of Java. Give syntax in Java to read/write characters and bytes.	(8)			
	PART B Attempt any TWO questions. Each question carries 16 marks.					
Q.7	a.	Define the syntax of tables, forms and frames of HTML.	(6)			
	b.	Discuss the guidelines to be followed in designing Website and Web page.	(6)			
	c.	What is meant by server page? Explain.	(4)			
Q.8	a.	Give a XHTML code to create a scroll bar when an element's content is to to fit.	00 big (8)			
	b.	Give short note on information architecture (IA) and its relevance in designing.	web (8)			
Q.9	а.	Explain CGI architecture. In what situation can CGI be faster than Servlet? Explain.	(8)			
	b.	Explain the concept of Cascading style sheets in XHTML. Give illustrative examples.	(8)			