ROLL NO.

Subject: JAVA AND WEB PROGRAMMING

## **Diplete – CS**

Time: 3 Hours

# **JUNE 2014**

Max. Marks: 100

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

#### NOTE: There are 9 Questions 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 Q.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:

 $(2 \times 10)$ 

a. Which of the following operator can take three operands?

(A) ^	<b>(B)</b> ?:
(C) ~	( <b>D</b> ) >>

b. Which out of the following is not a valid data type?

(A) int	<b>(B)</b> short
(C) float	(D) bool

c. \_\_\_\_\_\_ section can be omitted in the "for" statement.

(A) initialization	( <b>B</b> ) increment
(C) both the above	( <b>D</b> ) none of these

d. What is the original name of Java?

(A) C	( <b>B</b> ) Oak
( <b>C</b> ) C++	( <b>D</b> ) None of these

e. What is the result of the expression (1 & 2) + (3 | 4) in base ten?

( <b>A</b> ) 1	<b>(B)</b> 2
(C) 8	( <b>D</b> ) 7

f. The use of 'protected' keyword to a member in a class will restrict its visibility as follows:

(A) Visible only in the class and its subclass in the same package

(**B**) Visible only inside the same package

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		(C) Visible in all classes in the same packages	e package and su	bclasses in the other	r
		<b>(D)</b> Visible only in the class where i	t is declared		
	g.	URL identifies a host computer by			
		(A) IP address	( <b>B</b> ) domain nan		
		(C) none of these	( <b>D</b> ) either of the		
	h.	provide domain to IP ma	pping on the inte	rnet.	
		<ul><li>(A) DNS</li><li>(C) ICMP</li></ul>	<ul><li>(B) HTML</li><li>(D) CSS</li></ul>		
	1.	HTML tags define			
		<ul><li>(A) The data types of elements of do</li><li>(B) Presentation of specified element</li></ul>			
		(C) The contents of the document			
		<b>(D)</b> The structure of the document			
	j.	Most style properties set for the body	element apply t	to the entire page the	rough
		(A) Inheritance	( <b>B</b> ) Polymorphi	0.000	
		(C) Encapsulation	<b>(D)</b> All of these		
		PART			
		Attempt any THREE questions. E	Cach question ca	rries 16 marks.	
Q.2	a.	How does Java differ from C and C	++?		(8)
	<ul> <li>b. Explain the meaning of the following statement public static void main (string args [])</li> <li>(8)</li> </ul>		ν U		
Q.3	a.	What are the three things performed	by declaration?		(8)
	b.	List any 7 Java operators with descr	iption, associativ	vity and relative ran	U
Q.4	a.	Explain the concept of Method Over	rloading in Java	with explain.	(8) (7)
	b.	What are vectors? How are they adv	antageous over a	arrays?	(6)
	c.	Explain 'equals()' function of the str	ring class.		(3)
Q.5	a.	How to extend an interface? Illustration	te with an examp	ple.	(10)
	b.	List any three frequently used packa	iges in Java with	descriptions.	(6)

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Q.6	6 a. Here's a piece of code that has been saved in a file called "JollyMessage.java": // A jolly message is written to the screen!		
	class Jollymessage {		
	public static void main(String[] ar	gs) {	
	//Write the message to the termir System.out.println("Ho Ho Ho!"		
	mistake has been made but it won' when it is run.	time error message. To put it another way t be picked up when the program is compi ror will be returned when the compiled of e rectified?	iled, only
	b. Discuss the concept of streams i	n java. What are the two basic streams?	(8)
PART B Attempt any TWO questions. Each question carries 16 marks.			
Q.7	a. What are name servers? Explain	1.	(8)
	b. Are there any problems spacing	images in toolbars? What is the solution?	(8)
Q.8	a. How can you control the horizo	ontal and vertical positioning of content w	vithin a

Q.9

cell? Explain through examples.

b. What are the elements of design? Explain any four.

b. Describe how to embed JavaScript in a Web Page.

a. Explain the essential parts of a typical form.

(8)

(8)

(8)

(8)