ROLL NO.	

Code: DC60/DE123/DC113 Subject: JAVA AND WEB PROGRAMMING

DiplETE - CS/ET (Current & New Scheme)

Time: 3 Hours	December 2016	Max. Marks: 100
Time. 5 Hours	December 2010	Iviax, iviai ks. 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:	(2×10)
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- a. Which of the following type of inheritance is not present in Java?
 - (A) Multiple

(B) Multilevel

(C) Single

- **(D)** All of these
- b. 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
 - **(C)** Visible in all classes in the same package and subclasses in the other packages
 - (**D**) Visible only in the class where it is declared
- c. Which statement is true about an object?
 - (A) An object is what classes are instantiated from
 - **(B)** An object is an instance of a class
 - (C) An object is a blueprint for creating concrete realization of abstractions
 - (**D**) An object is a reference to an attribute
- d. Which of the following primitive data types are not integer types?
 - (A) boolean

(B) byte

(C) long

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

(B) 2

(C) 8

- **(D)** 7
- f. Which of the following is not a keyword in Java?
 - (A) finalize

(B) boolean

(C) assert

(**D**) abstract

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	g.	Which doctype should be added to your XHTML document, if you use CSS in your document?		
		•	3) Transitional	
		(C) Strict (D) Frameset	
	h.	. Which of the following is valid keyword in Java?		
			3) string	
		(C) float (E) unsigned	
	i.	Suspend thread can be revived by using		
		. , , , , , , , , , , , , , , , , , , ,	3) Suspend() method	
		(C) resume() method (D) yield() method	
	j.	Methods that have same name, but diffe	erent Parameter list and different	
		definition are known as		
			3) Constructor	
		(C) Overloading (D	None of these	
		PART A		
		Attempt any THREE questions. Each	h question carries 16 marks.	
Q.2	a.	What are the features of Java?		(3)
	b.	How is Java strongly associated with the internet?		(3)
	c.	Java is freedom language, comment.		(2)
	d.	. List four major differences between C++ and Java.		(4)
	e.	. What are the following components used for?		(4)
		` ' 3	i) java	
		(iii) appletviewer (i	v) jdb	
Q.3	a.	Explain Numeric and Non-Numeric dat	a types of Java.	(8)
	b.	Explain the syntax of <i>for</i> loop. Also, describe with the help of example, the <i>enhanced for</i> loop. (4+4)		
Q.4	a.	What are vectors? How are they advant	ageous over arrays?	(6)
	b.	e. Explain 'equals()' function of the string class.		(4)
	c.	e. "Method overloading is same as method overriding", justify or contradict statement giving appropriate reasons and examples. (6		t this (6)
Q.5	a.	What are the steps in creating a package	e? Explain.	(8)
	b.	What is the difference between abstract of example how and when to use abstract of	-	with (8)

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Q.6	a.	What is an exception? Explain with suitable example how a program throws exception explicitly?		
	b.	What is a stream? How is the concept of streams used in Java?		
	c.	Distinguish between (i) Input Stream and Reader classes (ii) Output Stream and Writer class	(5) ses	
PART B Attempt any TWO questions. Each question carries 16 marks.				
Q.7	a.	How are web pages generated dynamically? Explain.	(6)	
	b.	Define the syntax of tables, forms and frames of HTML.		
	c.	What is meant by server page? Explain.		
Q.8	a.	Explain the six concrete steps of Information Architecture (IA).	(8)	
	b.	What is table in XHTML? Explain any three different attributes for the element that controls the various formatting options for the table. (4)	e table +4)	
Q.9	a .	What is CSS? What are the benefits of using CSS? Write a small progrademonstrate the use of CSS.	ram to (8)	
	b.	Describe how to embed JavaScript in a Web Page.	(8)	