ROLL NO.

Code: DC60

Subject: JAVA AND WEB PROGRAMMING

Diplete – CS

Time: 3 Hours

JUNE 2013

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:

 (2×10)

a. Which is a reserved word in the Java programming language?

(A) method	(B) native
(C) subclasses	(D) array

b. Which of the following are legal lines of code?

(A) int $w = (int)888.8;$	(B) byte $x = (byte)1000L;$
(C) $\log y = (byte)100;$	(D) All of these

c. Given a method in a class, what access modifier do you use to restrict access to that method to only the other members of the same class?

(A)	final	(B)	static
(C)	private	(D)	protected

d. Given the following,

```
class SSBool {
   public static void main
        (String [] args) {
        boolean b1 = true;
        boolean b2 = false;
        boolean b3 = true;
        if ( b1 & b2 | b2 & b3 | b2 )
            System.out.print("ok ");
        if ( b1 & b2 | b2 & b3 | b2 | b1 )
            System.out.println("dokey");
        }
}
```

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what is the result?

(A) (эk
-------	----

(C) ok dokey

(B) dokey

- (D) No Output Produced
- e. The methods wait() and notify() are associated with

(A) Exception Handling	(B) File Handling
(C) Inheritance	(D) Inter-thread communication

f. Given the following,

String x = "xyz"; x.toUpperCase(); String y = x.replace('Y', 'y'); y = y + "abc"; System.out.println(y); what is the result?:

(A) XyZabc(C) XYZabc

(B) xyzabc

- **(D)** None of these
- g. Given the following,

int I = 0; label: if (I < 2) { System.out.print("I is " + I); I++; continue label; } what is the result?

(A) I is 0	(B) I is 0, I is 1
(C) Compilation Fails	(D) None of these

h. A modem is not needed when accessing the internet through

(A) LAN	(B) Wi-Fi
(C) Cable	(D) None of these

i. To host a web site which of the following is required?

(A) Database Server	(B) Mail Server
(C) Exchange Server	(D) Web Server

- j. In HTML, URI(Uniform Resource Identifier) is used to:
 - (A) to create a frame document

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- (B) to create an image map on the web page
- (C) to customize an image on web
- (D) to locate a resource on the internet

PART A Attempt any THREE questions. Each question carries 16 marks.

Q.2	a.	List four major differences between C++ and Java.	(4)
	b.	What are the following components used for?(i) javac(ii) java(iii) appletviewer(iv) jdb	(4)
	c.	Explain the Java program structure.	(8)
Q.3	a.	Explain iteration statements in java with suitable examples.	(8)
	b.	Explain break and continue statements in detail with examples.	(8)
Q.4	a.	Design a class to represent an employee. Include following data member methods: Variables: Name of employee Age Sex DOB(dd/MM/yyyy) Basic Salary Marital status Constructor: to assign initial values Methods: to display various details about employee	ers and
	b.	What is inheritance and purpose of using inheritance? What is the keyword super in inheritance? Explain with an example.	use of (8)
Q.5	a.	What is an interface in java? Differentiate between interface and a classes.	abstract (8)
	b.	What is difference between multithreading and multitasking? Explain life of a thread in java.	e cycle (8)
Q.6	a.	What is an exception? Explain with suitable example how a program three exception explicitly?	ows an (6)
	b.	Write a java program to determine whether a string is palindrome or not.	(6)

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c. What are streams in Java? Explain.

(4)

PART B

Attempt any TWO questions. Each question carries 16 marks.

Q.7	a.	What is HTML? Write the structure of an HTML document.	(8)
	b.	What is web hosting and types of web hosting services?.	(4)
	c.	What is HTTP? Define purpose of any two HTTP methods.	(4)
Q.8	a.	Explain briefly the border, cellpadding, cellspacing and background attribute the table tag in XHTML.	utes of (8)
	b.	Explain strict, transitional and frame set DTD(document type definition XHTML validation.	on) in (4)
	c.	Give brief overview of the steps of information architecture (IA)	(4)
Q.9	а.	a. Give brief overview of CGI. What are the components of CGI model? Exp web server-handler interaction.	
	b.	Explain the use of the following array methods:(i) pop()(ii) push()(iii) concat()(iv) reverse()	(8)