

Code: DC60

Subject: JAVA AND WEB PROGRAMMING

DipIETE – CS

Time: 3 Hours

DECEMBER 2012

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 will legally declare, construct, and initialize an array?
- (A) `int [] myList = {"1", "2", "3"};` (B) `int [] myList = (5, 8, 2);`
(C) `int myList [] [] = {4,9,7,0};` (D) `int myList [] = {4, 3, 7};`
- b. CGI is mainly used for
- (A) Client-side scripting (B) Server-side scripting
(C) Database coding (D) None of these
- c. Which of the following is a tag used to insert a table in a web page?
- (A) `href` (B) `tr`
(C) `td` (D) `table`
- d. Which one of the following will declare an array and initialize it with five numbers?
- (A) `Array a = new Array(5);` (B) `int [] a = {23,22,21,20,19};`
(C) `int a [] = new int[5];` (D) `int [5] array;`
- e. Which of the following is not a type of text alignment?
- (A) left (B) middle
(C) right (D) justify
- f. Which one is a valid declaration of a boolean?
- (A) `boolean b1 = 0;` (B) `boolean b2 = 'false';`
(C) `boolean b3 = false;` (D) `boolean b4 = Boolean.false();`

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g. Which is a valid declarations of a String?

- (A) String s1 = null; (B) String s2 = 'null';
(C) String s3 = (String) 'abc'; (D) String s4 = (String) '\ufeed';

h. What is the numerical range of a char?

- (A) -128 to 127 (B) $-(2^{15})$ to $(2^{15}) - 1$
(C) 0 to 32767 (D) 0 to 65535

i. You want subclasses in any package to have access to members of a superclass. Which is the most restrictive access that accomplishes this objective?

- (A) public (B) private
(C) protected (D) transient

j. public class test { }

What is the prototype of the default constructor?

- (A) void test() (B) test(void)
(C) public test() (D) public test(void)

PART A

Attempt any THREE questions. Each question carries 16 marks.

- Q.2** a. Explain any four characteristics of Java Programming Language. (8)
b. What is the use of command-line arguments? Write a Java program to display command line arguments given during execution. (8)
- Q.3** a. Explain the primitive data types of Java. (8)
b. Explain scope of java variables with an example. (8)
- Q.4** a. Explain the general form of a Java Class with an example. (8)
b. What are the input and output streams? Explain them with illustrations. (8)
- Q.5** a. Differentiate between overloading and overriding with example programs. (8)
b. What is a package in Java? Explain different access modifiers of Java. (8)
- Q.6** a. Explain how you use try and catch with an example. (8)
b. Explain the two methods for creating threads in Java. (8)

Code: DC60**Subject: JAVA AND WEB PROGRAMMING****PART B****Attempt any TWO questions. Each question carries 16 marks.**

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- Q.7** a. Define the following: (8)
(i) full URL
(ii) relative URL along with its types
- b. What is domain registration? How can it be accessed? (8)
- Q.8** a. What are the common web page errors? Explain atleast four of them. (8)
- b. Briefly explain the steps to create a site's information architecture. (8)
- Q.9** a. How is a style sheet attached to a web page? Give code for the two ways. (8)
- b. What is a dialog window? How do you use dialog windows in Javascript? (8)