

DipIETE – CS/ET (Current & New Scheme)

Time: 3 Hours

DECEMBER 2015

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. Why we use array as a parameter of main method?

- (A) it is syntax (B) Can store multiple values
(C) Both of these (D) None of these

b. Which class cannot be a subclass in java?

- (A) abstract class (B) parent class
(C) Final class (D) None of these

c. Suspend thread can be revived by using

- (A) start() method (B) Suspend() method
(C) resume() method (D) yield() method

d. Which of the following statements about arrays is syntactically wrong?

- (A) `arrayName[] p = new arrayName[5];`
(B) `arrayName p[5];`
(C) `arrayName[] p [];`
(D) `arrayName p[][] = new arrayName[2][];`

e. A CSS declaration always ends with a _____ and declaration groups are surrounded by _____

- (A) semicolon and curly brackets (B) semicolon and square brackets
(C) either (A) or (B) (D) neither (A) or nor (B)

- f. What is the correct HTML for adding a background color?
- (A) <body color="yellow">
(B) <body bgcolor="yellow">
(C) <background>yellow</background>
(D) <body background="yellow">
- g. Methods that have same name, but different Parameter list and different definition are known as
- (A) Overriding (B) Constructor
(C) Overloading (D) None of these
- h. Which Window object method is used to display message in a dialog box?
- (A) alert() (B) prompt()
(C) message() (D) None of these
- i. Which type of inheritance is not supported by java?
- (A) Single (B) Multiple
(C) Multilevel (D) Hierarchical
- j. String is the predefined
- (A) Method (B) Class
(C) Variable (D) Object

PART A

Attempt any THREE questions. Each question carries 16 marks.

- Q.2** a. Discuss the various features of JAVA which offer solutions to some of the problems encountered in modern programming. (5)
- b. With the help of a diagram explain the steps involved in Java communication with a web page. (5)
- c. Discuss the structure of a typical Java Program in detail. (6)
- Q.3** a. With the help of an example, discuss the scope of various kinds of variables in Java. (8)
- b. Write a Java program to print output for n numbers using control statements. Take n from the user. (8)
- 1
2 2
3 3 3
4 4 4 4
5 5 5 5 5

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

- Q.4** a. "Method overloading is same as method overriding", justify or contradict if this statement giving appropriate reasons and examples. (6)
- b. What is the role of wrapper classes in Java? Discuss with examples. (4)
- c. Discuss the various visibility modifiers provided in Java. (6)
- Q.5** a. Compare and Contrast an interface and a class in Java. Use suitable examples wherever required. (5)
- b. Explain how packages are created, accessed and used in java. (6)
- c. What are the ways to create threads in java? Discuss with examples. (5)
- Q.6** a. Write a program to show the appropriate use of at least two Exception handling methods including finally statement. (6)
- b. What is a stream? How is the concept of streams used in Java? (5)
- c. Distinguish between
(i) Input Stream and Reader classes
(ii) Output Stream and Writer classes (5)

PART B**Attempt any TWO questions. Each question carries 16 marks.**

- Q.7** a. What are static and dynamic web pages? Discuss how web pages can be generated dynamically and what are its advantages? (6)
- b. Discuss the various ways to write web URLs with examples. (4)
- c. What is an image map? How is it useful? Where is an image map placed in an HTML file? How is an image associated with its map? (6)
- Q.8** a. Show how page forwarding is performed in HTML, with the help of an example. (3)
- b. Define UNITY and VARIETY elements of design. (3)
- c. A common mistake is to begin creating Web pages before doing sufficient groundwork on the information blueprint for a site. Discuss the various steps of Information Architecture to be followed for designing the website. (10)
- Q.9** a. What is CSS? Discuss the various ways to link a css with HTML file. (5)
- b. In Web page, when and why should one use the GET and the POST request method? (5)
- c. Write javascript statements to display the various dialog windows with appropriate messages. (6)