

(Following Paper ID and Roll No. to be filled in your Answer Book)

**PAPER ID : 1300**

Roll No.

1 2 4 5 9 1 4 0 6 1

**MCA**

(SEM. III) ODD SEMESTER THEORY

EXAMINATION 2013-14

**WEB TECHNOLOGY-I**

*Time : 3 Hours*

*Total Marks : 100*

**Note :- Attempt all Sections.**

**SECTION-A**

1. Attempt all parts : (2×10=20)

- (a) What is Java Collection Framework ?
- (b) What is the difference between a function and a method ?
- (c) Why multiple inheritance is not available in Java ?
- (d) What is the difference between the sleep() and wait() method ?
- (e) Write an applet to draw square inside a rectangle.
- (f) What do you mean by platform independent ?
- (g) How you will define the term function in JavaScript ?
- (h) What do you understand from the term image ?

- (i) What is a Dense Array ?
- (j) What is the difference between GET and POST method ?

### SECTION-B

2. Attempt any **three** parts : **(3×10=30)**
- (a) What is Java Virtual Machine ? Describe the architecture of Java Virtual Machine.
  - (b) What is the use of InetAddress Class ? Differentiate between the URL and URLConnection with suitable example.
  - (c) What is Database Driver ? What are the various types of database drivers ? Write a program to fetch student information from database.
  - (d) What is JavaScript ? Differentiate between Java and JavaScript. How do you associate functions with objects using JavaScript ?
  - (e) What is AJAX ? What are the benefits of AJAX ? Write the various steps to write an AJAX based application.

### SECTION-C

3. Attempt **all** parts : **(5×10=50)**
- (a) What do you mean by Exception ? What is checked and unchecked exception ? Explain Exception Chaining.

**OR**

Describe the different stages in the life cycle of an Applet.  
Distinguish between init() and start() methods.

- (b) What is a Thread ? What are the advantages of Multithreading ? Write a program in Java for creating two threads, one printing multiple of three and other printing multiple of five.

**OR**

What do you mean by Stream Classes ? Write a program in Java for writing into a file and reading from a file using byte streams.

- (c) How is Java's coordinate system organized ? Describe the three ways of drawing polygons.

**OR**

Briefly describe various types of text components provided by Java swing and their usage. Differentiate between the radio button and checkbox by taking suitable example.

- (d) What is Layout Manager ? What are the various types of Layout manager ? Explain Gridbag layout manager by taking suitable example.

**OR**

What is JavaScript assisted style sheets DOM (JSSS DOM) ?

What are the various objects in HTML ?

- (e) What do you mean by Cascading Style Sheet (CSS) ? What are the advantages of CSS ? How many ways are there to specify style information in a document ?

**OR**

Create an XML file designed to contain information about student performance on a module. Each student has a name, a roll number, a subject marks and an exam marks.