

(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
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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.