

**UNIVERSITY OF MUMBAI**  
**Practical Examination – NOVEMBER 2014**  
**M.C.A Semester – IV**  
**LABORATORY L401**  
**[Core & Advanced JAVA]**

**Duration: 3 hours**

**Seat No: \_\_\_\_\_**

**Marks: 40 Marks**

**General Instructions:**

- *The practical consists of questions of 40 marks.*
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**PART A (25 Marks)**

<b>Q. 1</b>	<b>A)</b>	<b>Write a java program to demonstrate Constructor Overloading</b>	<b>5</b>
	<b>B)</b>	<b>Write a program to create a Custom Exception Pay Out of Bound and fire it. The program should take employee name and basic salary as input. If basic salary is less than 5000 fire the exception or else calculate the gross salary Note DA is 17% of Basic salary HRA is 50% of basic salary deduction is 5% of basic salary gross=BASIC+DA+HRA net=gross-deduction</b>	<b>10</b>
	<b>C)</b>	<b>An online admission form using Swings as front end and JDBC type 1 driver as backend Note: The fields to be taken in design are Demographic information ,Academic information ,College choices</b>	<b>10</b>

**PART B (15 Marks)**

<b>Q. 2</b>	<b>A)</b>	<b>Create a bean class employee and access it using the usebean action tag in JSP ,Also store the details of employee class namely Empid, Ename in the database using JDBC type 1 driver</b>	<b>15</b>
		<b>OR</b>	
	<b>B)</b>	<b>A program on session bean stateful to access List of items in supershop like Pen, Biscuit, Accessories etc.</b>	<b>15</b>

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**PART A (25 Marks)**

<b>Q. 1</b>	<b>A)</b>	Write a java program to use Super keyword in method overriding. Override the method display in base and sub-class	<b>5</b>
	<b>B)</b>	Write a program to find the sum of command line arguments and count the invalid integer entered.	<b>10</b>
	<b>C)</b>	An online Tour operator using Swings as front end and JDBC type 4 driver as backend Note: The fields to be taken in design are Demographic information , Place to visit, Budget, Time of travel.	<b>10</b>

**PART B (15 Marks)**

<b>Q. 2</b>	<b>A)</b>	Create a online Shopping application in servlet using session management. Create a index.html page for username to be entered and a submit button to direct to servlet1. Servlet1 for item selection after item selection have a href to servlet 2 .Servlet have the same session activated and display's user name and item selected	<b>15</b>
		<b>OR</b>	
<b>Q. 2</b>	<b>B)</b>	A program on struts which allows you to select the subject (Java, Database, OS, Security etc) and display the book available for the same.	<b>15</b>

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<b>C)</b>	<b>An online admission form using Swings as front end and JDBC type 1 driver as backend Note: The fields to be taken in design are Demographic information ,Academic information ,College choices</b>	<b>10</b>

**PART B (15 Marks)**

<b>Q. 2 A)</b>	<b>Create a bean class employee and access it using the usebean action tag in JSP ,Also store the details of employee class namely Empid,Ename in the database using JDBC type 1 driver</b>	<b>15</b>
	<b>OR</b>	
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**PART A (25 Marks)**

<b>Q. 1</b>	<b>A)</b>	<b>Write a java Program for interface .Create a interface Area with method Compute.Class Circle,Traingle,Rectangle implente the interface.</b>	<b>5</b>
	<b>B)</b>	<b>Write a program for multiple catch to fire the ArrayIndexOutOfBounds and Arithmetic exception</b>	<b>10</b>
	<b>C)</b>	<b>A JDBC Type 4 Driver(pure java driver)Program to implement basic operation of add,delete and retrieve records from student table. student table:RollNo,sname,semester,phoneno,percentage</b>	<b>10</b>

**PART B (15 Marks)**

<b>Q. 2</b>	<b>A)</b>	<b>Count the total hit made to the website using Cookies . The result should be displayed as: You Visited the website:-----times.</b>	<b>15</b>
<b>OR</b>			
	<b>B)</b>	<b>A program on Entity Beans to display the basic information of Collge</b>	<b>15</b>

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<b>Q.2</b>	<b>A)</b>	<b>Count the total hit made to the website using Cookies . The result should be displayed as: You Visited the website:-----times.</b>	<b>15</b>
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**PART A (25 Marks)**

<b>Q. 1</b>	<b>A)</b>	<b>Write a java Program to implement inheritances in Java for Education Domain. Have the corresponding class and use one method that is overridden.</b>	<b>5</b>
	<b>B)</b>	<b>write a program for traffic light implementation in applet. Three light (Red, Green and Yellow), only one light is on at a time. And it toggles as follows: red-Yellow-green-yellow-red...</b>	<b>10</b>
	<b>C)</b>	<b>A JDBC Type 4 Driver (pure java driver) Program to implement basic operation of add, delete and retrieve records from College table. CName, Address, Phone no, Course (UG/PG).</b>	<b>10</b>

**PART B (15 Marks)**

<b>Q. 2</b>	<b>A)</b>	<b>Write a servlet program for displaying session management. Develop a tours and travel management application with servlet pages. servlet 1 fills the date of journey and destination. servlet 2 display user name and confirm the travel date and destination</b>	<b>15</b>
		<b>OR</b>	
<b>Q. 2</b>	<b>B)</b>	<b>A program on Entity Beans to display the basic information of College</b>	<b>15</b>

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<b>Q. 1</b>	<b>A)</b>	Write a java program using packages create two packages p1 and p2 and access a class define in P1 in P2	<b>5</b>
	<b>B)</b>	Create a applet to display font and different font styles.It print the entered text in the format of selection.	<b>10</b>
	<b>C)</b>	Develop a JDBC and Swing application for railway ticket reservation system. Design a appropriate GUI for the same ad store the necessary items in database using JDBC type1 driver.	<b>10</b>

**PART B (15 Marks)**

<b>Q. 2</b>	<b>A)</b>	Create a JSP page that takes the students name and marks obtain in different subject and prints the percentage and the class accordingly	<b>15</b>
		<b>OR</b>	
<b>Q. 2</b>	<b>B)</b>	A program on Entity Beans to display the basic information of Collge	<b>15</b>

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**PART A (25 Marks)**

<b>Q. 1</b>	<b>A)</b>	<b>Write a Java Program to demonstrate abstract class. Create a abstract class salary with an abstract method pay. Depending on the employee (clerk,officer) the salary is calculated</b>	<b>5</b>
	<b>B)</b>	<b>Create a multithreaded program for producer consumer problem using thread synchronization. The producer produces an item which is consumed by consumer.</b>	<b>10</b>
	<b>C)</b>	<b>Create a JDBC Swing application for software firm displaying the project details, Platform ,assign employees to it,Date of commencement and submission respectively. Use JDBC driver to store this information in database.</b>	<b>10</b>

**PART B (15 Marks)**

<b>Q. 2</b>	<b>A)</b>	<b>Write a program in jsp to create a bean class department with following fields deptid,dname,totalemployee. Access this class using usebean action tag also use set property and get property to assign values and display the data members of that class</b>	<b>15</b>
<b>OR</b>			
<b>Q. 2</b>	<b>B)</b>	<b>A program to demonstrate the creation of message bean .-</b>	<b>15</b>

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**PART A (25 Marks)**

<b>Q. 1 A)</b>	<b>Write a java program for matrix multiplication.</b>	<b>5</b>
<b>B)</b>	Write a program to get the input from the user and store it into file. Using Reader and Writer file	<b>10</b>
<b>C)</b>	<b>A JDBC Type 4 Driver(pure java driver)Program to implement basic operation of add,delete and retrieve records from Account table.</b>	<b>10</b>

**PART B (15 Marks)**

<b>Q. 2 A)</b>	<b>Create a servlet show a current date for initial visit and current date and last access date from second visit onwards. (Use concept of HTTP session to write the program).</b>	<b>15</b>
<b>OR</b>		
<b>Q. 2 B)</b>	<b>Write a program using struts to display the hotel menu selection and price of each item selected</b>	<b>15</b>

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**PART A (25 Marks)**

<b>Q. 1 A)</b>	<b>Write a java program using vector class</b>	<b>5</b>
<b>B)</b>	<b>Create an applet that displays a smile face as output</b>	<b>10</b>
<b>C)</b>	<b>Create a swing based application for super shop management . The item and the qty are displayed from the backend(db).use JDBC driver for the same.</b>	<b>10</b>

**PART B (15 Marks)**

<b>Q. 2 A)</b>	<b>Create a servlet show a current date for initial visit and current date and last access date fro Write a program in jsp that will calculate total percentage obtained by a student in all 6 semesters. The output will contain student name, roll number, course, university and the total percentage</b>	<b>15</b>
<b>OR</b>		
<b>Q. 2 B)</b>	<b>Write a program using struts to display the medicine available in the store.</b>	<b>15</b>

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<b>B)</b>	<b>Create an applet that displays a smile face as output</b>	<b>10</b>
<b>C)</b>	<b>Create a swing based application for super shop management . The item and the qty are displayed from the backend(db).use JDBC driver for the same.</b>	<b>10</b>

**PART B (15 Marks)**

<b>Q. 2 A)</b>	<b>Create a servlet show a current date for initial visit and current date and last access date fro Write a program in jsp that will calculate total percentage obtained by a student in all 6 semesters. The output will contain student name, roll number, course, university and the total percentage</b>	<b>15</b>
<b>OR</b>		
<b>Q. 2 B)</b>	<b>Write a program using struts to display the medicine available in the store.</b>	<b>15</b>

**UNIVERSITY OF MUMBAI**  
**Practical Examination – NOVEMBER 2014**  
**M.C.A Semester – IV**  
**LABORATORY L401**  
**[Core & Advanced JAVA]**

**Duration: 3 hours**

**Seat No: \_\_\_\_\_**

**Marks: 40 Marks**

**General Instructions:**

- *The practical consists of questions of 40 marks.*
- *Viva will be taken at the time of practical as well as after the practical if required.*
- *The figures to the right indicate full marks*
- *Create a folder with name of your seat Number in the folder “MCA\_SEM\_IV\_2014” on the desktop.*
- *Answer to the questions, if any, should be written in the answer book. Use the last page for rough work.*
- *You are allowed to use help files / documentation of the software/language that you are using..*
- *If you are using any additional information, state it clearly.*
- *Once you finish with the code show it to the examiner for testing. Attach the printout of the program and its out put along with the answer book.*

**PART A (25 Marks)**

<b>Q.1 A)</b>	<b>Write a java program to explain the autoboxing and unboxing feature of wrapper class.</b>	<b>5</b>
<b>B)</b>	<b>Write a java program to explain the throw and throws clause</b>	<b>10</b>
<b>C)</b>	<b>Create a GUI for library management system with the necessary fields and use JDBC Type 4 driver to store the information in backend</b>	<b>10</b>

**PART B (15 Marks)**

<b>Q.2 A)</b>	<b>Create a servlet to add multiple cookies in an application and display the same</b>	<b>15</b>
	<b>OR</b>	
<b>Q.2 B)</b>	<b>Write a program using struts in which user select the start and end destination and it displays the flight available between the station .</b>	<b>15</b>

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**PART A (25 Marks)**

<b>Q. 1</b>	<b>A)</b>	Create class Vehicle that will contain member Brand and Color. Create a class car that inherits Vehicle and contains member TotalDoor. Display Brand, Color and Total door of an object car.	<b>5</b>
	<b>B)</b>	Create multiply threads doing different tasks. One thread printing fibonascii series till 100. Other printing prime numbers till 100.	<b>10</b>
	<b>C)</b>	Create a swing based application for super shop management . The item and the qty are displayed from the backend(db).use JDBC driver for the same.	<b>10</b>

**PART B (15 Marks)**

<b>Q. 2</b>	<b>A)</b>	Write a JSP program that demonstrates the use of JSP declaration, scriptlet, directives, expression, header and footer	<b>15</b>
		<b>OR</b>	
<b>Q. 2</b>	<b>B)</b>	Write a program for session bean sate full to display the books selected from library.	<b>15</b>