Savitribai Phule Pune University

T.Y.B.Sc.(Computer Science) Sem-VI Practical Examination

CS-369: Practical Course based on CS 365

(Object Oriented Programming using Java – II)

Practical Duration: 3 Hours **Max. Marks: 35**

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1. Write a JSP program to display the details of Patient (PNo, PName, Address, age, disease) in tabular form on browser. [15 M]

2. Write a Java program to create LinkedList of String objects and perform the following:
   i. Add element at the end of the list
   ii. Delete first element of the list
   iii. Display the contents of list in reverse order [15 M]

3. Viva [05 M]

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1. Write a Java program using Runnable interface to blink Text on the frame. [15 M]

2. Write a Java program to store city names and their STD codes using an appropriate collection and perform following operations:
   i. Add a new city and its code (No duplicates)
   ii. Remove a city from the collection
   iii. Search for a city name and display the code [15 M]

3. Viva [05 M]

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1. Write a Java program to accept 'n' integers from the user and store them in a collection. Display them in the sorted order. The collection should not accept duplicate elements. (Use a suitable collection). Search for a particular element using predefined search method in the Collection framework. [15 M]

2. Write a java program to simulate traffic signal using threads. [15 M]

3. Viva [05 M]

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1. Write a java program that implements a multi-thread application that has three threads. First thread generates random integer number after every one second, if the number is even; second thread computes the square of that number and print it. If the number is odd, the third thread computes the of cube of that number and print it. [15 M]

2. Write a java program for the following:
   i. To create a Product(Pid, Pname, Price) table.
   ii. Insert at least five records into the table.
   iii. Display all the records from a table. [15 M]

3. Viva [05 M]

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1. Write a java program to define a thread for printing text on output screen for 'n' number of times. Create 3 threads and run them. Pass the text 'n' parameters to the thread constructor.
   Example:
   i. First thread prints "COVID19" 10 times.
   ii. Second thread prints "LOCKDOWN2020" 20 times
   iii. Third thread prints "VACCINATED2021" 30 times [15 M]

2. Write a JSP program to check whether a given number is prime or not. Display the result in red color. [15 M]

3. Viva [05 M]

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1. Write a JSP program to check whether given number is Perfect or not. (Use Include directive). [15 M]

2. Write a Java Program to create a PROJECT table with field's project_id, Project_name, Project_description, Project_Status. Insert values in the table. Display all the details of the PROJECT table in a tabular format on the screen.(using swing). [15 M]

3. Viva [05 M]

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1. Write a java program to display name and priority of a Thread. [15 M]

2. Write a SERVLET program which counts how many times a user has visited a web page. If user is visiting the page for the first time, display a welcome message. If the user is revisiting the page, display the number of times visited. (Use Cookie) [15 M]

3. Viva [05 M]

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1. Write a java program to create a TreeSet, add some colors (String) and print out the content of TreeSet in ascending order. [15 M]

2. Write a Java program to accept the details of Teacher (TNo, TName, Subject). Insert at least 5 Records into Teacher Table and display the details of Teacher who is teaching "JAVA" Subject. (Use PreparedStatement Interface) [15 M]

3. Viva [05 M]

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1. Write a java program to accept 'N' integers from a user. Store and display integers in sorted order having proper collection class. The collection should not accept duplicate elements.

   [15 M]

2. Write a Multithreading program in java to display the number's between 1 to 100 continuously in a TextField by clicking on button. (Use Runnable Interface).

   [15 M]

3. Viva [05 M]

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1. Write a java program to display name and priority of a Thread. [15 M]

2. Write a SERVLET program in java to accept details of student (SeatNo, Stud_Name, Class, Total_Marks). Calculate percentage and grade obtained and display details on page. [15 M]

3. Viva [05 M]

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1. Write a java program to accept 'N' Integers from a user store them into LinkedList Collection and display only negative integers. [15 M]

2. Write a SERVLET application to accept username and password, search them into database, if found then display appropriate message on the browser otherwise display error message. [15 M]

3. Viva [05 M]

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1. Write a java program to accept 'N' Subject Names from a user store them into LinkedList Collection and Display them by using Iterator interface. [15 M]

2. Write a java program to solve producer consumer problem in which a producer produces a value and consumer consume the value before producer generate the next value. (Hint: use thread synchronization) [15 M]

3. Viva [05 M]

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1. Write a java program to accept a String from a user and display each vowel from a String after every 3 seconds. [15 M]

2. Write a java program to accept 'N' student names through command line, store them into the appropriate Collection and display them by using Iterator and ListIterator interface. [15 M]

3. Viva [05 M]

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1. Write a JSP script to accept a String from a user and display it in reverse order. [15 M]

2. Write a java program to display name of currently executing Thread in multithreading. [15 M]

3. Viva [05 M]

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1. Write a Java program to display information about all columns in the DONAR table using ResultSetMetaData. [15 M]

2. Write a Java program to create LinkedList of integer objects and perform the following:
   i. Add element at first position
   ii. Delete last element
   iii. Display the size of link list [15 M]

3. Viva [05 M]