JAVA MODEL LAB QUESTIONS ASSORTMENT

(Totally 22 set of 'terror' questions ☺)

1 a) Write a rational class with javadoc comments to implement addition, subtraction and reduction of two rational numbers.(ex-2a)
1 b) Write a Java swing program to implement free-hand drawing.

11 a) Design a Java interface for ADT Queue. Develop a class that implement this interface, using Linked-list.
11 b) Develop a multithreaded echo server and a corresponding GUI client in Java.

16. a) Develop multithreaded echo server and a corresponding GUI client in Java.
16 b) Write a java program to perform complex number addition and subtraction

7 a) Object serialization-rupee dollar program

7 b) Create a package myjava.mymath.arith (to perform arithmetic operations). another package myjava.mymath.scienti(to perform scientific operations).. import these 2 packages and perform operations.

12 a) Develop rational number class with javadoc commands. Implement rational number multiplication n display result in reduced form.
12 b) Design a java swing program with menubar and 2 text fields for temperature conversion. Give the input in 1 text field ,choose celsius or farenheit from the menubar. The corresponding value should be displayed in the output text field.

11.a.) Develop multithreaded echo server and a corresponding GUI client in Java.
11.b.Queue ADT using interface using Linked-List.

4 a) Interface: StackADT with necessary functions.
Create a class StackArray to implement StackADT and provide exception handling mechanisms...
4 b)Write a generic class with a function to search an element in 'n' elements of any data type(which should be given in run time)

10 a) Develop an OPAC system for library management. Have options for issuing books and listing member details. (Back end mysql)
10 b) Demonstrate inheritance in Java with a student class that consists of student details, and a marks class having the marks for 3 subjects. Base class is student and the derived class is marks. Calculate the class average for a class with n students for the 3 subjects.

14 a) Lisp car cdr cons program

14 b) Currency conversion using GUI with combo boxes. (Serialization is not needed)

12 a) Calculator to perform the following operations:

i) decimal operations ii) binary operations iii) binary to decimal conversion. Use event driven programming

12 b) Write a program to create accounts for n number of customers and perform the following operations:

i)Deposit ii) Withdrawal iii) Search iv) Display. (Normal Java Program)

13 a) Date Class simulation

13 b) Balancing parentheses using stack

18 a) Develop a complex calculator to perform complex number manipulation such as add, sub, mul, div using java swing.

18 b) Write a program to perform string manipulation such as insert, search, append, strings starting with 'a'.

10 a) OPAC using JDBC with issue details and list of user's book.

10 b) Using Inheritance, with base class 'student' and derived class 'marks', calculate class average for three subjects for n number of students.

15 a. Object serialization
15 b. String manipulations like length, concatenate, compare and substring.

17 a) Calculator i).decimal(normal) ii).scientific.

17 b) Thread Implementation. Determine three threads in a single class. First thread to display numbers from 1 to 100, second thread to display numbers from 100 to 1 and third thread to display odd numbers from 1 to 100.

6 a) Vehicle class with car and bike. Search by city and mileage. Calculate with polymorphism,

6 b) Chat using sockets in Java.(Using Terminal)

20 a) Chat using sockets in Java (Using GUI)

20 b) Vehicle Class Hierarchy

5 a) Implement Stack ADT using linked list

5 b) A Multithreaded program to generate the prime numbers in one thread and in another thread read from it and find their squares.

7 a) Calculator using packages

7 b)Object Serialization

8 a) Using Multithreading, find the prime and Fibonacci numbers upto 10000 and 1000 respectively. Also find the common elements.

8 b) Implement Queue ADT using interface and arrays.

19 a) Implement Stack ADT using package and check whether parenthesis is balanced in an expression

19 b) OPAC (Options: Insert book, search book by title & author, issue)

?) a) Using Event driven programming in Java, Design a scientific calculator perform Decimal manipulation, Binary manipulation and Binary to Decimal manipulation.

? b) Write a program to create accounts for n number of customers and perform the following operations:

i)Deposit ii) Withdrawal iii) Search iv) Display. (Normal Java Program)