Sri Siddhartha Institute of Technology, Tumkur

(A constituent college of Sri Siddhartha Academy of Higher Education,Tumkur)

CS3TH2 : OBJECT ORIENTED PROGRAMMING

Date:25/11/2021   TEST1   Time: 1.45 to 2.45

Q. No	Answer the following	M	C	B
1	Compare the following:- a) Data Abstraction and Data Encapsulation b) Dynamic binding and Message Passing	6	1	2
2	List and explain any 6 benefits of OOP.	6	1	2
3	Describe any 3 OOP features.	6	1	2
4	Explain method overloading with an example program.	6	2	3
5	Design a class to represent a bank account. Include the following members:- <u>Data members</u> a) Name of depositor b) Account number c) Type of account d) Balance amount in the account <u>Methods</u> a) To assign initial values b) To withdraw an amount after checking balance and display customer details. Instantiate and test the class.	6	2	6

SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY, TUMAKURU

(A constituent college of Sri Siddhartha Academy of Higher Education, Tumakuru)

CS3TH2: Object Oriented Programming

Date:30/12/2021   TEST II   Time: 1:45 PM to 2:45 PM

Max.Marks:30

Answer all the questions

		M	C	B
1	Define Inheritance. Explain the different forms of inheritances with schematic diagram and general syntax.	6	1	2
2	Illustrate the uses of final keyword in inheritance with Example.	6	2	2
3	How does the java run-time system know where to look for packages you create?	6	2	1
4	Create an user defined package and explain the steps to save, compile and execute it.	6	2	6
5	Write a Java program to illustrate the importance of variables in an interface.	6	2	2

NOTE: M -Marks, C- Course Outcome and B – Bloom's level

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CS3TH2: Object Oriented Programming

Date: 03.02.2022   **TEST III**   Max. Marks: 20

Answer all the questions.

Q.No		M	CO	BL
1)	What are exceptions? Explain the basic exception handling mechanism in Java with its general form.	5	3	2
2)	Build a Java program that processes ArithmeticException and ArrayIndexOutOf Bounds Exception.	5	3	3
3)	What are Generics and what are their advantages? Explain the declaration of a Generic class and instance creation with their general forms.	5	3	2
4)	Construct a generic class with one type parameter and demonstrate its use with two objects.	5	3	3

Note: M- Marks, CO- Course Outcomes and BL-Bloom's level