CMR
INSTITUTE OF
TECHNOLOGY

USN | | | | | | | | | | |

Internal Assesment Test - II

Sub:	**Object Oriented Concepts**							Code:	**17CS42**
Date:	15 /4/2019	Duration:	90 mins	Max Marks:	50	Sem:	IV	Branch:	ISE

Answer Any FIVE FULL Questions

		Marks	OBE	
			CO	RBT
1 a)	Explain package and its type and import command in Java with example	[06]	CO3	L2
b)	Write a Java program for illustrating the exception handling when the number is divided by zero	[04]	CO3	L2
2 a)	Write a Java Program to define interface called Area which contains method called compute( ) and calculate the areas of rectangle (l * b) and triangle (1/2 * b * h) using classes rectangle and triangle	[07]	CO3	L3
b)	What is the importance of finally block?	[03]	CO3	L2
3a)	Define the concept of multithreading in Java and explain the different phases in the life cycle of thread, with a neat sketch	[06]	CO4	L2
b)	Explain keyEvent class with example	[04]	CO4	L3
4 a)	Elucidate the two ways of making a class threadable, with examples	[07]	CO4	L3
b)	What is synchronization? When do we use it?	[03]	CO4	L2
5 a)	Explain delegation event model used to handle events in Java	[06]	CO4	L2
b)	Explain inner class with example	[04]	CO4	L3
6 a)	What are two types of applets? Explain the skeleton of an applet	[06]	CO5	L2
b)	Explain getDocumentBase and getCodebase in applet class	[04]	CO5	L3
7 a)	Explain the role of synchronization in producer consumer problem with example	[10]	CO4	L3

CO's to PO's & PSO's mapping

Name of the course : **Object Oriented Concepts (17CS42)** Sub Code : 17CS42
Name of the Faculty/s : Mrs. Shilpa Pande Sem & Sec : 4th

Course Outcomes		Modules covered	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
CO1	To get the knowledge of principles and practice of object oriented analysis and design in the construction of robust, maintainable programs	**1**	3	2	0	2	0	0	0	0	2	0	0	2	1	0	0	0
CO2	Applying object oriented concepts to design, write, compile, test and execute Java programs	**2**	3	3	3	3	0	0	0	0	2	0	0	3	2	0	1	0
CO3	Exemplify the usage of Inheritance, Interfaces, Packages, and Exceptions	**3**	3	3	3	3	0	0	0	0	2	0	0	3	1	0	0	0
CO4	Implement the concept of Multithreading and Event Handling.	**4**	3	3	3	3	0	0	0	0	2	0	0	3	2	0	0	0
CO5	Designing and Implementing Applets and Swings	**5**	3	3	3	3	0	0	0	0	2	0	0	3	2	0	0	1

COGNITIVE LEVEL	REVISED BLOOMS TAXONOMY KEYWORDS
L1	List, define, tell, describe, identify, show, label, collect, examine, tabulate, quote, name, who, when, where, etc.
L2	summarize, describe, interpret, contrast, predict, associate, distinguish, estimate, differentiate, discuss, extend
L3	Apply, demonstrate, calculate, complete, illustrate, show, solve, examine, modify, relate, change, classify, experiment, discover.
L4	Analyze, separate, order, explain, connect, classify, arrange, divide, compare, select, explain, infer.
L5	Assess, decide, rank, grade, test, measure, recommend, convince, select, judge, explain, discriminate, support, conclude, compare, summarize.

PROGRAM OUTCOMES (PO), PROGRAM SPECIFIC OUTCOMES (PSO)				CORRELATION LEVELS	
PO1	Engineering knowledge	PO7	Environment and sustainability	0	No Correlation
PO2	Problem analysis	PO8	Ethics	1	Slight/Low
PO3	Design/development of solutions	PO9	Individual and team work	2	Moderate/ Medium
PO4	Conduct investigations of complex problems	PO10	Communication	3	Substantial/ High
PO5	Modern tool usage	PO11	Project management and finance		
PO6	The Engineer and society	PO12	Life-long learning		
PSO1	Design, implement and maintain business applications in a variety of languages using libraries and frameworks.				
PSO2	Develop and simulate wired and wireless network protocols for various network applications using modern tools.				
PSO3	Apply the knowledge of software and design of hardware to develop embedded systems for real world applications.				
PSO4	Apply knowledge of web programming and design to develop web based applications using database and other technologies				