PRN:		CourseCode:	MCA109

First Year M.C. A. End Semester Examination Summer 2024

Java Programming

Dayand Date: 04 JUN 2024 , Tue MaxMarks: **100**

Time: 10:30AM To 01:30PM Duration: **03**hrs

Instruction: - All questions are compulsory

			Marks	Bloom's Level	CO
Q.1		**Attempt the following**			
	a)	What are different features of java?	08	L1	CO1
	b)	Illustrate the Method overloading concept in java with a suitable example.	08	L2	CO1
		OR			
	b)	Explain Abstract class and methods in java in detail.	08	L2	CO1
Q.2		**Attempt the following**			
	a)	List and Explain different types of exception Handling	08	L4	CO1
	b)	How to use a Scanner class in java explain with a suitable example	08	L1	CO1
		OR			
	b)	Summarize File handling in java with an example.	08	L2	CO1
Q.3		**Attempt any two from the following**			
	a)	Define Event and Event Listener. How Delegation Event Model works? Explain	08	L1	CO2
	b)	Develop a GUI based login form application using swing to verify the user credentials	08	L3	CO2
	c)	Distinguish between Java application and Applet.	08	L4	CO2
Q.4		**Attempt any two from the following**			
	a)	Explain the Life cycle of Thread in java with suitable example.	08	L2	CO3
	b)	What are the different thread creation methods in java	08	L1	CO3
	c)	Demonstrate in detail about synchronization in threads. Write a program to demonstrate the use of synchronization.	08	L2	CO3
Q.5		**Attempt any Two of the following**			
	a)	Make use of java network programming to explain following terms. 1) Port Number 2) MAC Address 3) Socket 4) Connection-oriented and connection-less protocol	09	L3	CO3
	b)	Define java networking and explain various protocols used in networking.	09	L1	CO3
	c)	Illustrate different steps to establishing a TCP connection between two computing devices using Socket Programming	09	L2	CO3
Q.6		**Attempt any Two of the following**			
	a)	Illustrate the architecture of JDBC	09	L2	CO4
	b)	Compare JDBC with ODBC	09	L2	CO4
	c)	Identify all the steps to create the association between JDBC and database	09	L3	CO4

*****

SANJAY GHODAWAT UNIVERSITY, KOLHAPUR
SGU Library Copy
LIBRARY

Backlog