CMR Technical Campus

B. Tech. Mid Question Bank (R22 Regulation)

Academic Year: 2024 Semester: III

Subject Name: Object Oriented Programming Through Java

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PART-A

MID-I Questions						
Q.No	Questions	Marks	BL	CO	Unit No	
1	Define class and object.	2	L1	CO1	1	
2	Explain the usage of super keyword in java.	2	L2	CO1	1	
3	What is a Constructor Explain its types?	2	L1	CO1	1	
4	Explain the concept of Object-Oriented Programming.	2	L2	CO1	1	
5	Explain about the method overloading in Java.	2	L2	CO1	1	
6	What is an abstract class?	2	L2	CO1	1	
7	What is a package?	2	L1	CO2	2	
8	What is an interface ?	2	L1	CO2	2	
9	What are byte streams and character streams?	2	L1	CO2	2	
10	Describe how to implement an interface.	2	L2	CO2	2	
11	How would you import a user-defined package in a Java program?	2	L3	CO2	2	
12	Explain auto boxing.	2	L2	CO2	2	
13	Define Exception. How to handle Exceptions in java?	2	L1	СОЗ	3	
14	Explain the advantages of Exception Handling.	2	L2	CO3	3	
15	What are the different types of exceptions in Java?	2	L3	CO3	3	
	MID-II Questions					
16	Define a Thread. Explain the life cycle of a thread.	2	L2	CO3	3	
17	Explain Synchronization threads with example.	2	L2	CO3	3	
18	What is the difference between thread-based multitasking and process-based multitasking?	2	L4	CO3	3	
19	Explain Properties class.	2	L2	CO4	4	
20	Discuss about Priority Queue.	2	L2	CO4	4	
21	Explain the difference between HashSet and TreeSet.	2	L4	CO4	4	
22	Differentiate between Stack and Vector.	2	L4	CO4	4	
23	Explain Date and Calendar class.	2	L2	CO4	4	
24	How to Access a Collection via an Iterator?	2	L3	CO4	4	
25	What is the uses of Adapter class? Explain	2	L2	CO5	5	
26	What are the limitations of AWT?	2	L1	CO5	5	
27	Explain the MVC architecture.	2	L2	CO5	5	
28	Differentiate between AWT and Swing.	2	L4	CO5	5	
29	What is an Event? Explain Event Listeners?	2	L2	CO5	5	
30	Explain about Applets and its Applications.	2	L2	CO5	5	

PART-B

	MID-I Questions					
Q.No	Questions	Marks	BL	CO	Unit No	
1	What is a String? Explain different String Handling functions available in Java	4	L2	CO1	1	
2	Explain the forms of inheritance in Java.	4	L2	CO1	1	
3	Differentiate between Method overloading and Method overriding.	4	L4	CO1	1	
4	Explain abstract class with example.	4	L2	CO1	1	
5	What is method overriding in Java? Provide an example	4	L1	CO1	1	
6	Differentiate about final classes, final methods and final variables.	4	L4	CO1	1	
7	Define Inheritance. Explain Different types of Inheritance available in Java.	8	L2	CO1	1	
8	Explain in-detail about Java Buzzwords.	8	L2	CO1	1	
9	Implement polymorphism and types of polymorphism with example.	8	L3	CO1	1	
10	How would you import a user-defined package in a Java program?	4	L3	CO2	2	
11	Write a java Program that uses a nested interface.	4	L1	CO2	2	
12	Discuss this and super keywords.	4	L2	CO2	2	
13	Implement a program to copy the contents of one file into another file.	4	L3	CO2	2	
14	Explain different Access specifier available in Java.	4	L4	CO2	2	
15	Define File class? Explain Random Access File operations with access modes.	4	L2	CO2	2	
16	Does Java support multiple inheritance? Justify your answer.	8	L5	CO2	2	
17	Create a package. How many ways to importing a package with example?	8	L5	CO2	2	
18	Define a stream. Design the stream classes hierarchy.	8	L6	CO2	2	
19	Explain the following. a) try b) catch c) finally	4	L2	CO3	3	
20	Explain the difference between checked and unchecked exceptions.	4	L4	СОЗ	3	
21	Write a Java program that demonstrates the use of 'try' and 'catch' blocks.?	4	L3	CO3	3	
22	Illustrate the creation of user defined exception with an example.	4	L5	CO3	3	
MID-II Questions						

23	Analyze the impact of thread life cycle on the	4	L4	CO3	3
	execution of Thread in Java.	-			
	Develop a Java Program that demonstrates inter-				
24	thread communication or producer-consumer	4	L5	CO3	3
25	problem with example? .				
	Differentiate between multi-tasking and multi-	4	L4	CO3	3
23	threading.			003	3
26	Explain Thread priorities with example.	4	L4	CO3	3
27	Explain Collection Framework.	4	L2	CO4	4
28	Differentiate between Array and Arraylist.	4	L4	CO4	4
29	Differentiate between HashSet and TreeSet.	4	L4	CO4	4
30	Explain Priority Queue.	4	L2	CO4	4
31	Explain Hash Map.	4	L2	CO4	4
32	Explain Hash table and Dictionary.	4	L2	CO4	4
33	Explain Map interface its classes and sub interfaces	0		CO.4	4
33	(HashMap, TreeMap).	8	L2	CO4	4
34	Analyze Legacy classes with example.	8	L5	CO4	4
2.5	Illustrate Collection Framework with LIST and SET	0	т 2	CO.4	
35	Interface.	8	L3	CO4	4
26	Write the implementation of Anonymous Inner		1.0	005	_
36	class.	4	L3	CO5	5
37	Explain Java Swing class hierarchy.	4	L2	CO5	5
38	Differentiate between Applet and Application.	4	L4	CO5	5
39	Implement a Java Program for mouse events.	4	L3	CO5	5
37	Explain Swing components like, JCombobox,	nm		003	3
40	JButton.	4	L2	CO5	5
4.1	EXPLORE TO INV	ENT		005	
41	Explain Graphics class with suitable example.	4	L2	CO5	5
	What is an applet? Explain the life cycle of				
42	applet? Implement the parameter passing	8	L3	CO5	5
	technique for applets.				
42	Define Layout. Explain Different layout	0	т 4	005	
43	managers available in Java with neat sketch.	8	L4	CO5	5
	1. Discuss the following swing Buttons:				
44	a. JButton b. JCheck Box				
	c. JScroll Pane d. Dialogs.	8	L2	CO5	5