B Lech Third Semester (Computer Science & Engineering) (C B C.S.) Winter 2022 Object Oriented Programming with Java

P Pag		the Hours	SPM/KW/22/2530 Max Marks . 70
	Notes	All questions carry marks as indicated	
		2 Solve Question 1 OR Questions No. 2	
		3 Solve Question 3 OR Questions No. 4	
		4 Solve Question 5 OR Questions No. 6	
		5 Solve Question 7 OR Questions No. 8	
		6 Solve Question 9 OR Questions No. 10	
		7 Assume suitable data whenever necessary	
1.	2)	Write the significance of Java Virtual Machine	7
	14	What is the purpose of constructor in Java programming?	7
		OR	
2.	31	How does polymorphism promote extensibility? Explain with example	7
	b)	List the primitive data types available in Java and explain	7
3.	ä)	What is type wrapper? What is the role of auto boxing?	7
	hj	What is an array? How do you declare the array in java? Explain with	suitable example. 7
		OR	
4.	a)	Discuss about precedence of operators and associativity	7
	b)	Write a java method to find minimum value in given two values	7
5.	u)	State difference between	7
		11 Abstract classes & interfaces	
		ii) Method Overloading & Method overriding	
	ts)	What is Interface? Describe syntax, feature & need of an interface	7
		OR	
6.	a)	What are advantages of using Exception handling mechanism in a proj	gram? 7
	tr)	Define inheritance. Describe different forms of inheritance.	7
7.	a)	What are the different ways to create multiple threaded programs in ja- differences between them	va? Discuss the 7

b)	Write a program to create four threads using Runnable interface?	7			
OR					
a)	Differentiate between multiprocessing and multithreading. Write a suitable program for multithreading.	7			
h)	Write a program that creates two threads. First thread prints the numbers from 1 to 100 and the other thread prints the numbers from 100 to 1.				
a)	What is collection in Java? Differentiate between Vector and Array List	7			
h)	Contrast between List and Set ²	7			
OR					
a)	What is difference between Array List and Linked List in collection framework? Explain	7			
b)	Explain Map interface & its classes with suitable example	7			

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