Reg.	No.						
ode	116	05					

Question Paper Cod

B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV/DEC 2022

Third Semester

Computer Science and Engineering

(Common to Computer Science and Business Systems, Information Technology & Computer and Communication Engineering)

20CSPC301 - OBJECT ORIENTED PROGRAMMING

(Regulations 2020)

Duration: 3 Hours

Max. Marks: 100

$PART - A (10 \times 2 = 20 Marks)$

Answer ALL Questions

1.	Evr	plain briefly why Joyo is colled as mletform: in Joyo 1 and 1	Marks, K-Level, CO			
		plain briefly why Java is called as platform independent language.	2,K2,CO1 2,K1,CO1			
2.	How to use String Object as expression in switch statement?					
3.		tinguish between class and interface.	2,K2,CO2			
4.	Wh	at is super class? How to invoke super class constructor from the class in Java?	2,K1,CO2			
5.	What happens when there is no suitable try block to handle exception?					
6.	Distinguish between println(), print() and printf() in Java.					
7.	How does Java support inter thread communication?					
8.	Wh	at is the role of join() in multithreading?	2,K1,CO4			
9.	Ho	w lambda expression and functional interfaces are related?	2,K1,CO5			
10.	Wh	at are the main features of ReactiveX?	2,K1,CO5			
		$PART - B (5 \times 13 = 65 Marks)$				
Answer ALL Questions						
11.	a)	Define and explain the control flow statements in Java with suitable examples	13,K2,CO1			
		OR				
	b)	(i) Describe briefly about operators in Java.	6,K2,CO1			
		(ii) Write a Java program to reverse the given number.	7,K3,CO1			
12.	a)	What is inheritance in java? Explain the Super keyword with the help	13,K2,CO2			
		of an example program. OR				
	b)	(i) Define Package? Explain how the java compiler locates packages?	5,K2,CO2			
	U)	(ii) Explain the types of package with example programs.	8,K2,CO2			
			11/00			

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	13.	a)	Explain how Strings are handled in Java? Discuss about some methods of String class with examples.	13,K2,CO3				
		b)	OR Discuss in detail about multiple inheritance and explain how to achieve multiple inheritance in Java with examples.	13,K2,CO3				
	14.	a)	(i) Discuss how to handle multiple catch blocks for a nested try block? Explain with an example.	7,K2,CO4				
			(ii) Describe how to define a user exception in a program? Illustrate with an example.	6,K2,CO4				
			OR					
		b)	Write short notes on various I/O streams in Java with examples.	13,K3,CO4				
	15.	a)	Explain the concept of Multithreading with suitable examples. OR	13,K2,CO5				
		b)	With an example, explain in detail about Generic Programming.	13,K2,CO5				
$PART - C (1 \times 15 = 15 Marks)$								
	16.	a)	Write simple Web applications using Reactive programming.	15,K3,CO6				
			OR					
		b)	(i) Discuss about the Comparator Interface in Java.	5,K2,C06				
			(ii) Write a Java Program to create a Java class as follows: class Student with data members Name, Rollno, Mark1, Mark2, Mark3. Initialize 10 objects for the class with relevant details using a constructor. Sort the objects of the class in ascending order of total marks. Use Java Collections and Comparator in your application.	10,K3,CO6				