CS/B.TECH(N)/EYEN/SEM-4/4858/2022-2023/1019

## MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL



Paper Code: PCC- CSD 403 Object Oriented Programming and Design
UPID: 004858

Time Allotted: 3 Hours

Full Marks :70

[4]

The figures in the margin indicate full marks.

Candidate are required to give their aliswers in their own words as far as practicable

Group-A (Very Short Answer Type Question)	
1. Answer any ten of the following	: 10 ]
What is Multiple inheritance"?	
Mention two string functions of Java.	
Define 'Class'.'	
What are the use of 'suber' keyword in lava?	
OF Define IRE.	
ivi An abstract class can contain constructor State, Yes or No.	
Why java main() method is statical	
(New) What is the difference between abstract method and non-abstract method?	
What are the two different ways to achieve abstraction?	
What are the functions of the files System, in, System.out, and System.err?	
What is the difference between single and multilevel inheritance?	
Static method does not have access to the instance variable. Is it True or False?	
Group-B (Short Answer Type Question)	
Answer any three of the following:	(15)
2. What is an "Abstract Method!"? What is the "Stafic Method"?	[5]
What is the advantage of the static method?	
a. Write a program in Java to implement method overspading by changing the number of arguments and the	[5]
data, types of arguments to dal dulate the area of a triangle, circle, square, and rectangle.	
Write program in Java to identify a prime number.	[5]
5. Write four differences between Java and G++ Which one is better for future prospects?	[5]
6. What are the differences between constructor and method? What is copy constructor?	[5]
Group-G(Long Answer Type Question)	
Answer any three of the following:	- 45 1
7 (a) What are the types of variables used in Java 2	
(b) What is constructory	[2]
(c) How many ways a constructor can be overloaded?	[3]
(d) Write a program in Java to overload a construction	[3]
The same of the period period period of the same of th	[7]
	[4]
(c) Write a program in Java to show that the final method is inherited.	[2]
The Property of the Control of the C	[4]
and show methodioverriding and display the cate of interest of each bank.	[5]
MeWoing and multiple in inner rance using class animal cat and using	
MeWoing" and "Kitten Is Meowing over the night"  (b) Why multiple inheritarice is not supported in ava?	[6]
Explain Different types of the supported in lava?	,
(c) Explain Different types of classes with diagrams used in Inheritance.	[4]
salary and bonus of the access program and defived class program	
10 (a) What is interface Explain it.	[2]
	[3]
Control of the Control of Control	

· j	[ 3
	[2
	[6
iple inheritance using i	nterface. [8 to perform addition subtraction, [8
share and calcu	ate the volume of Sphere and Cone [7
ertace Shape and care	
*** END OF PAPER ***	
	in interface calculator erface Shape and calcu