

Reg. No.:

- 2PCA10083

Name :

Abhinav Agarwal



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### Mid-Term Examinations – October 2022

Programme	: MCA	Semester	: Fall 2022-23
Course	: Object Oriented Programming using JAVA	Code	: MCA1003
Faculty	: Dr. Kanchan Lata Kashyap	Slot/ Class No.	: D11+D12+D13/0791
Time	: 1 ½ hours	Max. Marks	: 50

Answer all the Questions

Q. No.	Sub. Sec.	Question Description	Marks
1		How compile time polymorphism can be implemented in JAVA. Demonstrate it with suitable example	10
2	(a)	Determine the output of following code: <pre> class temp { public static void main(String args[]) { String s = "tachygraphometry"; System.out.println(s.charAt(1)); System.out.println(s.charAt(5)); System.out.println(s.charAt(12)); System.out.println(s.charAt(s.length()-1)); } } </pre>	5
	(b)	Determine the output of following code: <pre> class temp1 { public static void main(String args[]) { int i, j; for(i=0; j=0; i&lt;=100; i++) { if(i%2==0) i++; else j++; } System.out.println(j); } } </pre>	5



- 3 Create a class Player with data members are  
`int playerid,`  
`String playername,`  
`String playergame`  
and member functions are  
`void getplayer(),`  
`String searchplayer(),` and  
`void displayplayer().`  
Create object of three players and perform all operations. 10
- 4 Write the reasons behind the introduction of inheritance in OOP. What are different kinds of inheritance? Explain multilevel inheritance with example 10
- 5 Write a Java program that calculates and shows the areas and circumferences of three circles, each of which has its radius of 3, 100, and 8.75 centimetres. 10

