Total No.	of prin	ced pages = 4		
MCA 2	02103			
Roll No. o	of candi	date		(GlidT & Girle) Azara, Halkhowapara, Guwahati -781017
		2 113) 20	)21	
		M.C.A. 1st Semester E	nd-Term E	xamination
	PROG	RAMMING TECHNIQUE	ES USING	PYTHON AND JAVA
		(New Regulation	& New Sy	llabus)
Full Marl	ks - 70			Time - Three hours
		The figures in the ma	rgin indicate	full marks
		Answer question No. 1 a	nd any four	from the rest.
1. Ans	wer the	following questions:		$(10\times1=10$
(i)	Is Pytl	non case sensitive when de	ealing with i	dentifiers?
	(a) Y	es	(b)	No
	(c) N	Iachine dependent	(d)	None of the mentioned
(ii)	Which	of the following is not a k	eyword?	
	(a) e	val	(b)	assert
	(c) n	on local	(d)	pass

(iv) Arrays in Java are implemented as?

(a) class

(iii) Which of the following cannot be a variable?

(b) object

in

on

(b)

(d)

(c) variable

(a) \_init\_

It

(c)

(d) none of the mentioned

(v) Which of these packages contains all the event handling interfaces?

(a) java.lang

(b) java.awt

(c) java.awt.event

(d) java.event

(VI)	AA III	ch of these interfaces define a metho	ou ac	tioni eriorineu():
	(a)	ComponentListener	(b)	ContainerListener
	(c)	ActionListener	(d)	InputListener
(vii)	Whi	ch of these packages contains abstra	act ke	eyword?
	(a)	java.lang	(b)	java.util
	(c)	java.io	(d)	java.system
(viii)	Whi	ch of these keywords is used to defin	ne pa	ckages in Java?
	(a)	pkg	(b)	Pkg .
	(c)	package	(d)	Package
(ix)	Wha	at type of variable can be defined in	an in	terface?
	(a)	public static	(b)	private final
	(c)	public final	(d)	static final
(x)	Wha	at will be the output of the following class A {     public int i;	Java	a code?
			OWD	HURY CENTRAL LIBRARY
		class B extends A	Azara	Hatkhowapara,
		Class D extends A	Gur	wahati -781017
		void display ()		
		super. j = super.i + 1;		
		System.out.println(super.i + '	' " + s	super.j);
		class inheritance		
		{     public static void main(String	aros	af 1)
		public static void maniforming	argo	
		B obj = new B(); obj.i=1; obj.j=2; obj.display();		
		}		
	(a)	22		
	(b)	33		
	(c)	Runtime Error		
	(d)	Compilation Error	100	

2.	Ans	wer the following questions
	(a)	List the feature of a Python Programming Language. (4)
	(b)	What is built-in function in Python? Explain the function of the following built-in function: $(1+(2\times 3)=7)$
		(i) bin () function  BINA CHOWDHURY CENTRAL LIBRARY
		(ii) eval () function (GMT & GIPS) Azara, Hatkhowapara,
		(iii) getattr () Function Guwahati -78101.7
	(c)	What is the difference between Python List and Tuple. Explain with an example. (4)
3.	Ans	wer the following questions:
	(a)	Explain constructor in terms of Python Programming language. Explain its type with suitable example. (1+5)
	(b)	What is a Lambda Functions in Python? What is its use? Explain briefly. (4)
	(c)	Explain multiple inheritance with a suitable Python Program. (5)
4.	Ans	wer the following questions:
	(a)	List the difference between Procedure Oriented Programming and Object Oriented Programming Language (5)
	(b)	What is the difference between super and super()? (3)
	(c)	Explain the statement-"Java is Platform Oriented". (2)
	(d)	What is a package? What is the difference between user-defined package and java package? How can we use a user-defined package in a java program? Explain. (5)
5.	Ans	wer the following questions:
	(a)	Give a comparison between abstract class and concrete (ordinary) class. (5)
	(b)	What is the default package name in Java? Explain the difference between "import java.io. *" and "import java.io.DataInputStream". (2)
	(c)	What is the default package name in Java? Explain each part of the below line
		System.out.prinln("Hello"); (3)
	(d)	What is an interface in Java? Explain the use of interface in a suitable Java Program. (5)
MC	A 20	2103 [Turn over

6.	Answer	the	following	questions	
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- (a) What is Polymorphism? How it is achieved in Object-Oriented approach of Programming? (2+2)
- (b) Explain method overriding with a suitable Java Program. (5)
- (c) What is an array? How can declare and create an array? (2)
- (d) What are the different types of variable used in Java? Explain with a suitable Java Program. (4)

## 7. Answer the following questions:

- (a) What are the rules for abstract class? (4)
- (b) Compare and Contrast Overloading and Overriding methods. (3)
- (c) What is a copy constructor? Explain with a suitable program. (4)
- (d) What are access-specifiers? What are the different types of access-specifiers used in Java. Explain their use with a suitable Java Program. (4)

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