Seat No.:	Enrolment No.

Subject Code: 3350703

Subject Name: Java Programming

GUJARAT TECHNOLOGICAL UNIVERSITY

DIPLOMA ENGINEERING - SEMESTER -5 (NEW) - EXAMINATION -WINTER-2022

Date: 13-01-2023

	me:10:30 AM TO 1:00 PM Total Mar		s:70
1. 2. 3. 4.	Make Figur Use of	npt all questions. Suitable assumptions wherever necessary. es to the right indicate full marks. f simple calculators and non-programmable scientific calculators are permitted. sh version is authentic.	
Q.1		Answer any seven out of ten. દશમાંથી કોઇપણ સાતના જવાબ આપો.	14
	1. 9.	Define wrapper class. Write the name of any two wrapper class. Wrapper class ની વ્યાખ્યા આપો. બે Wrapper class ના નામ આપો.	
	2. ૨ .	Describe Byte Code in Java. Bytecode વર્ણવો.	
	3. 3.	What is Constructor? Constructor ยู่ อิ?	
	4. γ.	Why java is not supported Pointer? Java પોઇન્ટર ને સપોર્ટ કેમ નથી કરતો તે સમજાવો	
	5. Վ.	List any four inbuilt exceptions. કોઇપણ ચાર inbuilt exceptions ની યાદી બનાવો	
	6. §.	Wha is the use of static keyword in Java. JAVA માં static keyword નો ઉપયોગ શું છે?	
	7. ૭.	What is interface? Interface એટલે શુ?	
	8. ८.	Write the syntax to create and import a package. પેકેજ બનાવાની અને ઈમ્પોંટ કરવા ની રીત લખો.	
	9. &.	List different thread priorities. જુદી જુદી thread priorities ની યાદી લાખો.	
	10. 90.	Define Abstract class Abstract class ની વ્યાખ્યા આપો.	
Q.2 પ્રશ્ન. ર	(a) (અ)	Explain JVM in java. JAVA માં JVM સમજાવો.	03 03
		OR	
	(a) (અ)	Explain the features of JAVA JAVA ના features સમજાવો.	03 03
	(b) (બ)	Distinguish between break and continue statement in Java with Example. Break અને continue સ્ટેટમેંટ વચ્ચે નો તફાવત ઉદાહરણ સહિત સમજાવો.	03 03
	(b)	OR Explain the difference between string class and string buffer class with example.	03

	(બ)	String class અને stringbuffer class વચ્ચે નો તફાવત ઉદાહરણ સહિત સમજાવો.	03
	(c)	Explain method overloading with example.	04
	(s)	Method overloading ઉદાહરણ સહિત સમજાવો.	०४
	` ,	OR	
	(c)	Explain constructor overloading with example.	04
	(٤)	Constructor overloading ઉદાહરણ સહિત સમજાવો.	०४
	(d) (3)	Write a program in Java that calculates factorial of n using recursive function. Write a program in Java that calculates factorial of n using recursive function.	04 ๑४
	` '	OR	
	(d)	Write a program in Java that reads n numbers using command line argument and display that numbers.	04
	(2)	Write a program in Java that reads n numbers using command line argument and display that numbers.	०४
Q.3	(a)	Explain structure of Java Program	03
પ્રશ્ન. 3	(અ)	Java program નું માળખુ સમજાવો.	03
		OR	
	(a)	Compare procedure oriented programming language with object oriented programming language.	03
	(અ)	Procedure oriented programming language ને object oriented programming language સાથે સરખાઓ.	03
	(b)	Write short note: Abstract class.	03
	(બ)	Abstract class ની ટૂંકી નોધ લખો.	03
		OR	
	(b)	Distinguish: Throw vs. throws.	03
	(બ)	Throw અને throws વચ્ચે નો તફાવત સમજાવો.	03
	(c)	What is Dynamic Method Dispatch in Java? Explain with example.	04
	(٤)	Java મા Dynamic Method Dispatch શું છે? ઉદાહરણ સાથે સમજાવો.	०४
		OR	
	(c)	What is Synchronization? When do we use it?	04
	(٤)	Synchronization શું છે? એને કેવી રીતે ઉપયોગ કરી શકાય?	०४
	(d)	Write a program in Java that read the content of a file byte by byte and copy it into another file.	04
	(3)	Write a program in Java that read the content of a file byte by byte and copy it into another file.	०४
	(d)	OR Write a program in Java to read the contents of a file into character array and	04
	(u)	write it into another file.	04
	(2)	Write a program in Java to read the contents of a file into character array and write it into another file.	०४
Q.4	(a)	Explain Super keyword in inheritance.	03
પ્રશ્ન. ૪	(અ)	Inheritances માં superkeyword સમજાવો.	03
		OR	
	(a)	Write a Java program to print Fibonaci series.	03
	(અ)	Write a Java program to print Fibonaci series.	03
	(b)	Explain Inheritance & its types with example.	04
	(બ)	Inheritance ના પ્રકાર ઉદાહરણ સાથે સમજાવો.	०४

OR

	(b)	Write a program in Java to find the sum of the digits of a number using while	04
		loop. (Ex. entered no is 123 than sum is 6)	
	(બ)	Write a program in Java to find the sum of the digits of a number using while	०४
	` ,	loop. (Ex. entered no is 123 than sum is 6)	
	(c)	Explain how multiple inheritances is implemented in Java with example.	07
	(٤)	Java માં multiple inheritance બનાવાની રીત ઉદાહરણ સહિત સમજાઓ.	૦૭
Q.5	(a)	Explain exception handling mechanism in Java.	04
પ્રશ્ન. પ	(અ)	Java માં exception handling mechanism સમજાવો.	०४
	(b)	Explain thread life cycle.	04
	(બ)	Thread life cycle સમજાવો.	०४
	(c)	Write short note: Unchecked exception.	03
	(٤)	Unchecked exception ની ટૂંકી નોધ લખો.	03
	(d)	Write short Note: garbage collection.	03
	(2)	Garbage collection ની ટૂંકી નોધ લખો.	03
