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- 11. Arite a short notes on (any three)
 - a) Constructor
 - b) Abstraction
 - c) Wrapper class
 - d) Exception handing in OOP.
 - e) Aggregation.

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2014

Object Oriented Programming

ne Alloted: 3 Hours

Full Marks: 70

The figure in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable

GROUP - A (Multiple Choice Type Questions)

Choose the correct alternatives for the following:

10x1=10

I) After the following code fragment, what is the value in a?

String s;

int a;

m = "Foolish boy.";

a = s.indexOf ("fool");

- a) -1
- b) 0
- c) 4
- d) random value

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[Turn over]

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***	Market and the second s		What is the value of A[3]?
11)	If s = "text", what is the value returned by s.lengtht()?		a) 0
	a) false		b) 3
	b) true		c) 10°
	c) 4		d) Unknown
	d) 5		
:::	What is the value of heather the faller to and forward.	v)	The following is NOT an example of a data type.
iii)	What is the value of k after the following code fragment?		a) int
	int k=0;		b) public
	int n=12;		
	while (k < n) {		c) Button
	k=k+1;		d) Void
	}	vi)	The following a legal Java statement
	a) 0		a) m1=new TextField("sixty");
	b) 11		b) 1a=6;
	c) 12		c) add(m1);[ans]
	d) Unknown		d) m1.setText("Hello world);
iv)	Given the following code fragment:	vii)	The method set Label can be used with what type of Object?
	int A[];		a) Davida Field
	int i = 0;		a) DoubleField
	A = new int A[4];		b) int
	while (i < 4)		c) TextField
	(d) String
	A[i] = 10;		What is the value stand in regult often executing the
	i = i + 1;	VIII)	What is the value stored in result after executing the
	}		

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tollowing line in a program? result = 6/2*3;

- a) 1.2
- b) 9
- c) 1
- d) 0
- ix) Java is
 - a) platform dependent programming language
 - b) platform independent programming language
 - c) partial platform independent programming language
 - d) none of these.
- x) Which exception is thrown by the readt() method of input Stream class?
 - a) Exception
 - b) FileNotFoundException
 - c) ReadException
 - d) IO Exception
 - e) None of these

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GROUP - B

(Short Answer Type Questions)

Answer any three of the following

3x5/15

What is singleton class? Give a example of single class with proper lava coding.

(1+4)

Differentiate between the following (any two):

 $(2.5 \cdot 2)$

- a) Abstract class and interface
- Object and object reference
- u) Blatic and final keyword
- il) Method overloading and method overriding

Glass A {

```
Private int x;
Static int y;
Int display ( int a, int b);
{
System.out.printin("X=" + x + "Y=" +y);
```

What will be the memory allocation for attributes and method on objects #1, #2 of type A? Only picture of #1 and #2 along with their member and their memory size required.

(1+2+2)

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- 5. a) Explain "Public static void main(String[] args)" in brief
 - b: Explain try and catch declaration
- 6. Explain access specifies used in Java
- 7. a) What is thread? Draw the state transition diagram of J

GROUP - C

(Long Answer Type Questions)

Answer any *three* of the following. 3x15:

thread.

- b) Write a java program which will show the requirement synchronized method over a normal method in thread.
- Write a java program which will show that constructor automatically invoked during object creation.

(1+4+5

- 8. a) What is an interface? Implement interface in Java with a sam code.
 - b) Explain inheritance with its types.
 - Explain all the keywords of the statement: public static v main (String[]args)
 - e) What is the difference between inner class and nested clain java
 - f) Give a method that does not declare any exception. Can override that method in a subclass to throw an exception?

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(3+5+3+2+2)

Write down a Java code to generate a linear singly linked list having at least 4 nodes.

Dienuse Applet life -cycle indicating the functions, which are used.

What do you mean by 'Java is a platform independent language'?

(5+7+3)

- What is class? How does it accomplish data hiding?
-) When do we declare a method or class as "final"?
-) Discuss the different levels of access protection available in Java.
-) Correct the code for overloading method?

```
public class Figure
```

Public String draw(String s)

Return "Figure Drawn"

public void draw (string s) { }
public void draw (double f) { }

) Describe different forms of inheritance with examples.

(3+2+3+2+5)