M.M.: 100 W.TIME: 2Hrs. R.TIME: 15Mins.

Candidates are allowed 15 minutes for only reading the paper, they must NOT start writing during this time.

Answer all the questions in Section A, and any four from Section B.

SECTION A

	SECTION A	
Oua	Answer all the questions.	
a)	What is the difference between formal and actual parameters?	[2]
b)	What is the difference between mutator and accessor methods?	[2]
c)	What is 'this'?	[2]
d)	What are byte codes?	[2]
e)	What is Java interpreter known as?	[2]
340.	That is you'd interpreted raisoning as	1-1
Ques	stion 2:	
a)	What is inheritance?	[2]
b)	What is the difference between a static variable and an instance variable?	[2]
c)	Why is a class known as object factory?	[2]
d)	What is the size of a character data type in Java?	[2]
e)	What is polymorphism?	[2]
Ques	stion 3:	
a)	Name and explain access specifires.	[2]
b)	What are wrapper classes?	[2]
c)	Explain with example the use of break and continue?	[2]
d)	Explain the use of the following functions:	1-4
(70%)	i. abs() ii. ceil() iii. indexOf() iv. substring()	[4]
		62.67
	stion 4	
		[4+6]
а) x=0; y=0;	
	for (i=1; i<=4; i++) { if (++x <3 && ++ y < 3) { ++y;	
	if $(+x < 3 & x + y < 3)$	
	, ++y,	
	l	
	System.out.println(" $x="+x+"y="+y$);	
	1	
b) What will be the output of the following method for:	
	i) f(28, 39)	
	ii) f(27, 39)	
	iii) What is this method computing ? (Answer should be in one line)	
	Public Boolean f (int a, int b) {	
	// a,b are assumed positive	
	boolean c = false;	
	while (a >1 && b > 1) {	
	if $(a > b) a - = b$;	
	else $b - = a$;	
0.5)	
12.10. 10. 10.	==1 b==1)	
c = tn		
return	1 (c);	
)		

SECTION B

[4 x15]

Write programs in Java for any four of the following problems along with the variable description.

Question 5:

Declare a single dimension array of size n for integer values. Store the values given by the user in it. Sort the values using selection sort.

Question 6:

Accept a string value from the user and find and print the longest word.

Question 7:

Write a menu driven program to find simple interest and compound interest for a given principal, for a given time and at a given rate of interest

Question 8:

Write the overloaded functions to check:

- i) A palindrome number
- ii) A palindrome word

Question 9:

Write a program to find out if a number given by the user is automorphic or not.

Question 10:

class angle instance variables : int deg, min

methods to accept values for the instance variables.

to convert angle in min.

to convert min(passed as parameter) into deg and min.

