I TERM EXAMINATION: 2013-2014

Class - IX

Time: 2 hrs.

Subject - Computer Application

M.M.: 100

Answers to this paper must be written on the paper provided separately. You will not be allowed to write during the first 15 minutes.

This time is to be spent in reading the question paper.

The time given at the head of this paper is the time allowed to write the answers.

This paper is divided into TWO sections.

Answer ALL the questions in Section A and any FOUR questions from Section B.

The intended marks for questions or parts are given in [].

		SECTION - A [40 MARKS] Attempt ALL questions from this section.	
Q.1-	a.	What is JVM?	[2]
	b.	Define new keyword.	[2]
	C.	What is a variable? amaid Spachothlass Language 1 to 1 t	[2]
	d.	Define identifiers.	[2]
	e.	What is a block perofestion a to stoot judg brush lustrated makes in a series and a series and a series of the control of the	[2]
Q.2-	a.	What is fall through? It somessem standard a think to all all 0 = are set when	[2]
	b.	Write two differences between if-else and switch.	[2]
	c.	What is type conversion? What are the different types of type conversions.	
		Explain them.	[4]
	d.	What are operators? Laupentu line law and Aloon (add 0 < 10 to 2 to	[2]
Q.3-	a.	Give the output of the following: - ups ban have a see our point 0 = only a built	[4]
		i. $x\% = x+++++x-2$; if $x = 3$ yang game on soon good $0 > \infty = 10$	
	in-t	ii. $x+=++y+x+++y$; if $x=13$, $y=8$	
		iii. $a = a+++-a+++a*2$; if $a = 5$	
		iv. $a = -b + c + + b$; if $a = 30$, $c = 40$	
	b.	Rewrite the following code using ternary operator:	[2]
		int age = 20;	
		boolean res; websited search on the search matter and	
		if(age>=18) yah bay salag M a serah ani arad A	
		and a res = true; all symbile radinum and sugar as asset no day, managoring a sinter	
		O 7 - Monthly electricity high a calculated as	
		res = false; hencesog stinn to radmuM	
	c.	Write the Java expression for the following:-	[2]
		i. $\sqrt{a^3 + b^3 + c^3}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $\frac{1.00 \text{ per unit}}{4.00 \text{ per unit}}$ in the results $1.00 \text{ $	
		· 2 -2r · 4-	
	d.	ii. $3 - rs^{2r} + 4s$ What is dynamic initialization?	[2]
nuomi	e.	What is dangling else? And burg ad or manage later bear redman somurates and	[2]
- 3	f.	What is an escape sequence?	[2]
	g.	Do as directed:-	[3]
		i. Assign $\sqrt{2}$ (1.414) to a variable with a suitable datatype. In assign	
		ii. If $x = -9.29$, calculate Math.abs(x); (50 is * 50 is) or approx 50 as A. Ji	
	h.	Give the output of the following code:	[3]
	***	switch(opn)	
		{	
	74	case 'a';	
		System.out.println("Platform Independent");	
		break;	
		case 'b':	
		System.out.println("Object Oriented)"; case 'c':	
		System.out.println("Robust and Secure");	
		System.out.printing Robust and Secure),	

break;

Attempt any FOUR questions from this Section. Each program should be written using variable description/mnemonic codes such that the the program clearly depicted. Flow charts and algorithms are not required.	logic of
 Q.3- a. What are the functions of an Operating System? Explain. b. i. Booting of a computer system is essential. Explain. ii. Name four system icons. 	[5] [3] [2]
c. What do you understand by Graphic User Interface?	[5]
Q.4- a. Distinguish between:- i. Application Software and System Software	Q. 19
i. Application Software and System Software ii. Cold Booting and Warm Booting	[5]
b. What are the features of Graphic User Interface? Name two Graphic User Interface	[5]
based Operating System.	
Q.5- a. Write a program to calculate and print roots of a quadratic equation	[5]
$ax^2 + bx + c = 0$ (a != 0) with appropriate messages the roots are given by :	
b. Write two discrencies behaves and switch.	
$x1 = \frac{-b + \sqrt{b^2 - 4ac}}{2a}$ and $x2 = \frac{-b - \sqrt{b^2 - 4ac}}{2a}$.	[8]
2a 2a condition of the	[o]
if $b^2 - 4ac > 0$ then roots are real and unequal	
if $b^2 - 4ac = 0$ then roots are real and equal and wall of solution salts of $b^2 = 0$.	
if $b^2 - 4ac < 0$ then roots are imaginary	
b. Write a program to input 2 numbers and swap their values without using third value	e. [7]
Q.6- a. Write a program to input a number and check whether it is BUZZ number or not.	
A BUZZ number is a number which either ends with 7 or is divisible by 7. b. A library charges a fine for books returned late. Following are the fines:	[5]
First five days : 40 paise per day	[10]
Six to ten days : 65 paise per day	
Above ten days : 80 paise per day	
Write a program, which takes as input the number of days late and prints the fine.	
Q.7- Monthly electricity bill is calculated as:-	[15]
Number of units consumed Rate per unit	
<= 100 only meter rent ₹ 200/- was all off air W	
for next 200 units ₹ 1.00 per unit + meter rent	
for next 200 units ₹ 1.55 per unit + meter rent	
for more than 500 units ₹ 2.10 per unit + meter rent	
Write a program to input consumer number, number of units consumed. Calculate bill an Print consumer number and total amount to be paid by the consumer.	nount.
Q.8- a. Write a program to input 3 nos and print the greatest number without using if-else.	101
b. Write a program with option:-	[8] [7]
i. Area of circle $(\pi * r^2)$ the address is of $(1 + 4.1)$ by a given	[/]
ii. Area of square (side * side)	
iii. Area of rectangle (length * breadth) a garwollow at the herping arthur in	
Display the menu to output the area as per user's choice.	

System.out.println("Wrong Input");