ANNUAL EXAMINATION: 2022-23

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 question	s fro	m this section.			
Q.1-	Ch	oose the correct answer from the follow	ving	option:-			[20
	i.	Multiple branching statement of Java	is:	= (char)c	0,00		
		a. for b. while		do-while	d.	switch	
	ii.	The logical operation which is an una	ary o	perator:			
		a. & & b.	c.		d.	>>	
	iii.	int res = 'A'; What is the value of res?	ett do	tuetuo adi ad Ilia			
		a. A b. 66	c.	65	d.	97	
	iv.	Name the type of error that occurs for			ent:	-9	
		System.out.println(Math.sqrt(24					
		a. syntax error		run-time error			
•			d.	no error	ane-t	sM vi	
	v.						
		a. Boolean literal					
				None of these			
	VI.	Which of the following methods chec	ks th	at a string starts	with	a	
		particular string or not?		0. 74.74	.alkph	ob Time A	
	::	a. Starts() b. Startswith()					
	VII.	The trim() function removes spaces f					
		a. left of a stringc. both sides of a string	D.	right of a string	ornami.		
	viii	i. The statement $(1 > 0)$ && $(1 < 0)$ evalu		middle of a strir	0		
	VIII	a. 0 b. 1				true	
	ix	Given array int $z[] = \{15, 16, 17\}$; it wi					
	1	a. 3 b. 12					
	x.	In search, the alogorithm uses th					
		operation.			d) of	dv.	
		a. binary b. linear	c.	bubble	d.	selection	
	xi.	A package is a:					
		a. collection of data	b.	collection of fun	ction	ns	
		c. collection of classes	d.				
	xii.	Which of the following is the correct	usag	e? sarwolldi sh			
				floata[a - 40]			920
	xiii.	Which of the following relates with ha	ackii	ng?		Tione of the	30
		a. virus spread		to steal informa	tion		
		c. junk emails		none of these			
		Which of the following loop executes					
				do-while	d	all of these	
		The keyword used to terminate a loo	n is	uo wille	u.	dir or triese	
		a. break b. stop			Ь	loop	

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xvi. Which of the following features is not the principle of OOP?
                                                                                                  b. Transparency
                        Encapsulation
                                                                                                           Polymorphism
                        Inheritance
               C.
      xvii. Which of the following is not a primitive data type in Java?
                                                                                                                                               d. class
                a. Boolean b.
                                                                                                                    short
                                                                      short
                                                                                                           C.
      xviii. A Trojan is a _
                a. virus
                                                                                                                                                d. none of these
                                                                                                                    antivirus
                                                                       software
       xix. The unsolicited emails and attractive advertisements are known as:
                         Spam
                                                                                                                                                d.
                                                                                                                                                         None of these
                                                                      Hacking
                                                                                                                    Virus
                                                              b.
       xx. Single line comments can be added using:
                                                                                                                                                         both (a) & (b)
                                                             b. /**/
                                                                                                           C.
                State the values of n and ch
                                                                                                                                                                                      [2]
                char c = A'; which are the manifestion of the same that
                int n = c + 1
                char ch = (char)n;
       ii. Write Java expression:-
                                                                                                                                                                                     [2]
                  \frac{2}{3}(a^2-b^2)h
       iii. What will be the output of the following code?
                                                                                                                                                                                     [2]
                 int k = 5, j = 9;
                 k+=k++-++j+k;
                 System.out.println("k=" + k);
                 System.out.println("j="+j)
        iv. Name the method of scanner class that:
                                                                                                                                                                                    [2]
                          is used to input an integer data from the standard input device.
                  ii. is used to input a string data from the standard input device.
                 What will be final values stored in variables?
                                                                                                                                                                                   [2]
                  double a = -99.51; \therefore 3500 elocal elocal
                  double b = -56.25;
                           double p = Math.abs(Math.floor(a));
                           double q = Math.sqrt(Math.abs(b));
         vi. Rewrite using ternary operator:-
                                                                                                                                                                                   [2]
                  if(marks >= 90)
                           grade = "A";
                  else
            grade = "B";
         vii. Determine how many times the body of the loop will be executed:-
                                                                                                                                                                                 [2]
denote a int x = 5, y = 50; by albeing one even independent of the data
                   while (x \le y)
     d} selection
                                    y = y/x;
                       System.out.println(y);
          viii. Rewrite the following code using while loop:-
                                                                                                                                                                                  [2]
                  int n, r = 425
                 ·do
                           n = r \% 10;
                           r = r/10;
                           system.out.println(n);
                           while(r!=0);
```

i	k. Give the output:-	[2]
	a. System.out.println("Lucknow".substring(0, 4));	
	b. System.out.println("REDUCE".compareTo("REVOLT"));	
	c. System.out.println("computer".equals(Computer"));	
	d. System.out.println("ACHIEVEMENT".replace('E', 'A'));	
,	Given array $intp[] = \{136, 280, 900, 200, 100\};$	[2]
	a. Find the value of p[2] - 1 + p[3]	
	b. Find the value of p.length	
	CECTION PICOMARKS	
	SECTION - B [60 MARKS]	
TL	Attempt any FOUR questions from this Section.	+
In	e answer in this section should consist of the programs either Blue J environmen	
	or any program environment with Java as the base.	
	Each program should be written using variable description/mnemonic codes	
	such that the logic of the program is clearly depicted.	
	Flow charts and algorithms are not required.	
Q.3-	Write a program to input 10 element sin an Arry and find the sum of even	[15]
	and odd elements separately and print.	[10]
Q.4-	Write a program to input a string and count the number of vowels present in it	[15]
	and print it.	[10]
Q.5-		[15]
	following criteria:	[10]
	Weight in Kg Upto 10 kgs ₹ 25 per kg	
	opto 10 Ago	
	710	
	Above 30 kgs Write a program to calculate the charge as per the weight of the parcel and	
01	print it. Write a menu driven program to accept a number from the user, check and	
Q.6-	display whether it is a Palindrome or a prime number.	[15]
	Direction number is when read in the reverse order is same as the	
	original number. Eg. 11, 101, 151 etc.	
	to be a ply divisible by 1 and itself Eg. 3, 5, 7, 11 etc.	
07	A special two-digit number is such when the sum of its digits is added to the	
Q.7-	product of its digits, the result is equal to the original two-digit number.	[15]
	Eg. Input - 59 Sum of digits = $5 + 9 = 14$	
	Product of digits = $5 * 9 = 45$	
	14 + 45 = 59	
	Write a program to accept a 2-digit number and check whether it is a special	
	1' 't mumber or not	
. 00	to are grame to display the sum of the following series.	
Q.8-	a. 1+4+9+400	[7]
	10	roı
	b. $\frac{1}{2} + \frac{2}{3} + \frac{3}{4} + \dots + \frac{19}{20}$	[8]
	2 3 4 . 20	
	####	