GreenLawns High School

Warden Road

FINAL EXAMINATION 2024–25

Subject : Computer Applications

Std: 9 Date: 24/02/25 Number of printed pages : 4

SECTION A (40 Marks)

Question 1

Select proper option and write correct answer

1) Which of the following will produce 8.0 if x=8.9 a) Math.ceil(x) b) Math.round(x) c) Math.floor(x) d) Math.abs(x) 2) The result of Math.max(Math.sqrt(49), Math.min(36,63)) a) 36 b) 63 c) 49 d) 7 3) Which one of the following is multiple branch selection statement? b) if else c) switch d) if else if a) if 4) switch allows following data type : 1) int 2) char 3) double 4) boolean b) 1 and 2 c) only 3 a) only 1 d) 3 and 4 5) Which among the following is valid condition in if else? a) if (a>0 && a<0) b) if (ch=a') c) if (val>25.00 &val<50.0) d) lf(a!==b)6) Identify valid conversion a) int x=3.5 b) double b="356" c) boolean b='x' d) int a = (int) 45.89: 7) Ascii code for space is a) 32 b) 30 c) 33 d) 35 8) Identify the type of conversion in the statement : int x='B'; b) coercion a) forceful c) explicit d) narrowing 9) Which of the following is correct statement to accept int value from user? a) Int n= sc.nextint(); b) int n=sc.next(); c) int n=sc.nextInt() d) int n = nextInt(); 10) int $x_{1=a++}$; int $x_{2=++a}$; what value will be stored in x_1 and x_2 if a=4c) x1=5 x2=4 a) x1=4 x2=4 b) x1=4 x2=5 d) x1=5 x2=5 11) Select right sentence from the following : a) Binary operator works with one variable b) && is a relational operator c) % is a binary operator d) ++a it uses value of a first and then increase value of a by 1 12) Which is a valid separator? a) [b) $(c) > d) \{ \}$ 13) Select method from Math class which does not required any argument a) max () b) pow() c) random() d) cbrt()

[20]

Max. Marks: 100 Dur.: 2 Hours

14) Assertion : for loop becomes infinite loop when updation is missing	
Reason : updation is required to make loop work infinetly	
 a) Assertion is true, reason is false b) Assertion is false, reason is true c) Both Assertion and reason are true d) Both Assertion and reason are false 15) Assertion : break is not necessary statement in switch case statement 	
Reason : In the absence of break it results into fall through	
 a) Assertion is true , reason is false b) Assertion is false , reason is true c) Both Assertion and reason are true d) Both Assertion and reason are false 16) for (int i=5 ; i!=0 ; i) it results into 	
System.out.print(i);	
a) finite loop b) null loop c) infinite loop d) empty loop	
17) 1/2xbxh this mathematical expression is written in java as follows :	
a) 1/2bh b) 0.5*B*H c) ½*b*h d) 0.5*b*h	
18) Among the following which operator has highest order of precedence	
a) += b) ++ c) $ $ d) >=	
19) Scanner class is present in package.	
a) lang b) language c) utility d) util	
20) Select valid declaration of two double variables	
a) double a,b; b) double a, double b, c) Double a,b; d) Double a;D	ouble b;
Question 2	
a) Name the following	[5]
 I. To make unauthorised copy of software II. The technique in which data is encoded III. Act in which bulk mail is cont 	
 III. Act in which bulk mail is sent IV. Code of conduct on net. V. The software that can be copied and shared freely. b) State true or false 	[5]
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```
public static void print( int x)
     {
       Switch (x) :
       {
          case 1= System.out.print("one"); break;
          case 2= System.out.print("two"); break;
         Default : System.out.print("Invalid"); break;
        } } }
c) Convert following if else if into switch case
                                                                                               [2]
  if(ch =='M' || ch=='m')
  System.out.println("Mahabharat");
  else if (ch=='R' ||ch=='r')
  System.out.println(" Ramayan");
  else
  System.out.println(" Fairy Tale");6
d) Write output for the following
                                                                                               [2]
   i)
        int i;
      for( i=2 ; i< =10 ; )
      {
        System.out.println(++i* 4);
        i+=3 ;
       }
   ii) Write the output
                                  if a= 3, b=4, c=5
                                                                                               [2]
     if (a+b\%c > a+b/c)
     System.out.print(a*b*c);
     else
     System.out.print(a+b+c);
```

SECTION B (60 Marks)

[15]

Question 5

Write a program to accept Customer name, mobile no and amount he / she purchased goods using Scanner class. Calculate discount and gift he will get as per following criteria.

amt	discount	gift
Less than or equal to7000	5%	iron
More than 7000 and less	10%	grinder
than or equal to 15,000		
More than 15,000	12%	Leather bag

Display customer name, mobile no, discount and gift.

Question 6

Write a program to accept employee name , mobile number and salary using Scanner class .Calculate tax as per the following criteria :

salary	tax
1 lakh	nil
>1 lakh - <=5 lakh	3000+7% of salary exceeding 1 lakh
> 5 lakhs - <=12 lakhs	5000+10 % of salary exceeding 5 lakhs
>12 lakhs	7000+12 % of salary exceeding 12 lakhs

Display name, mobile number and tax .

Question 7

Write a program to display following pattern using function

- a) void series (int x) $x^{1}+x^{3}+x^{5}+x^{7}$+ x^{19}
- b) void series() 1-2+3-4+5.....-20

Question 8

WAP to accept a number and check if it is a three digit number , if it is three digit number then check if it is Dudency number or not. Dudency number is : example : 512 = 5+1+2 = 8 where $8^3 = 512$

If it is not three digit number display message "Invalid Number".

[15]

[15]