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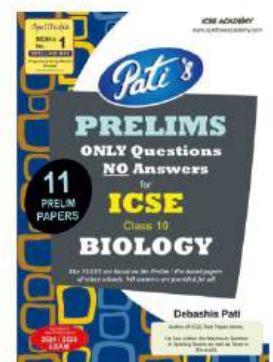
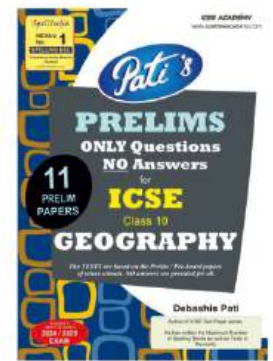
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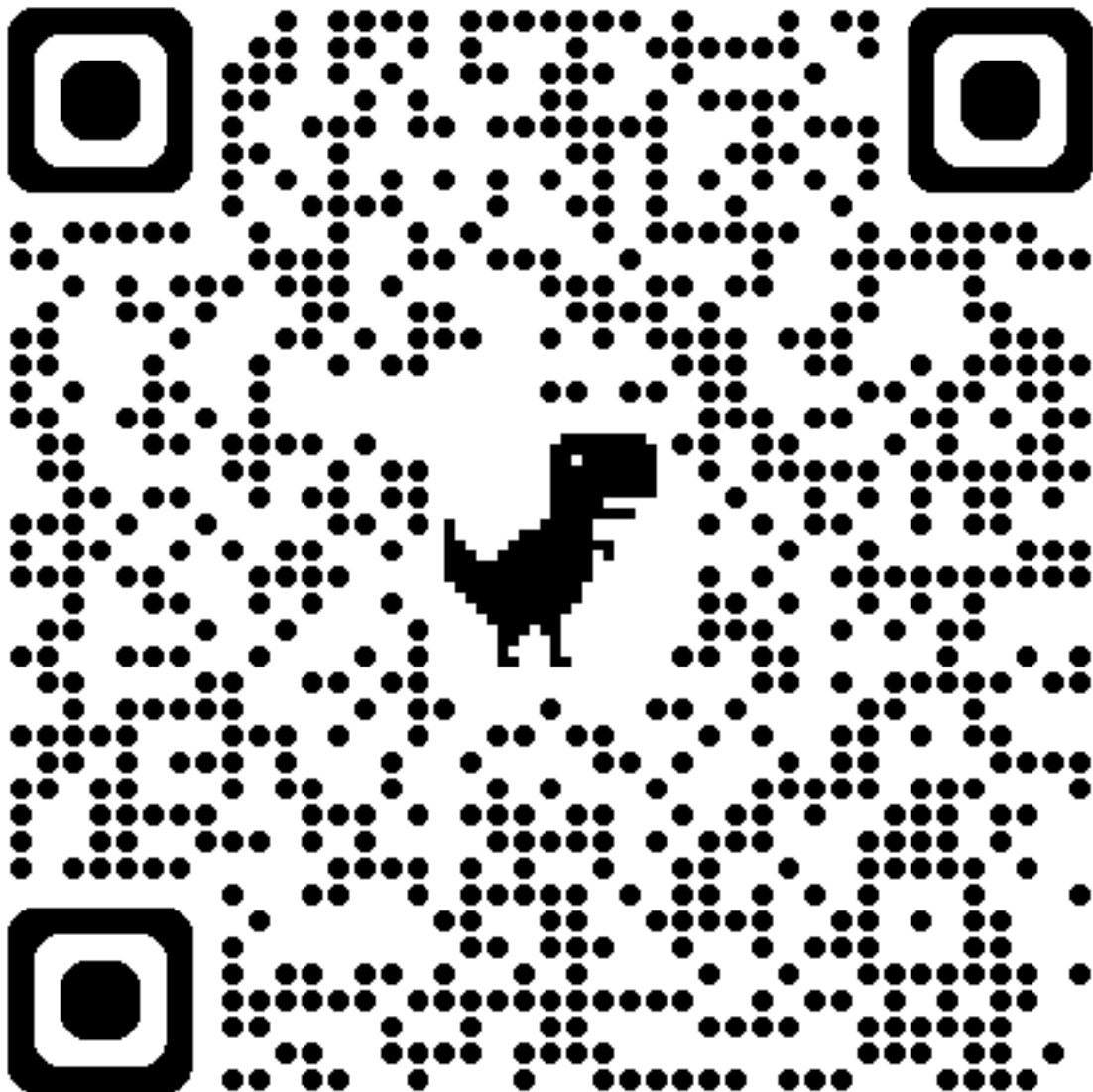
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## COMPETENCY-FOCUSED PRACTICE QUESTIONS

### Table of Contents

S.No	Type of Questions	Page No.
I.	Multiple-Choice Questions (MCQs)	2-14
II.	Very Short Answer Questions	14-19
III.	Long Answer Questions	20-23
	<i>Answer Key</i>	24-37

Note this is a CISCE Question and Answer set.

**ICSE - CLASS X**

**Computer Applications**

**I: Multiple Choice Questions (1 mark)**


S.No	Questions
1.	<p><i>[User Defined Methods]</i></p> <p>What is the type of error, if any, when two methods have the same method signature?</p> <p>(a) Runtime error (b) Logical error (c) Syntax error (d) No error</p> <p>[Understanding]</p>
2.	<p><i>[User Defined Methods]</i></p> <p>The advantage/s of user-defined methods are/is:</p> <p>(i) Reusability (ii) Complexity (iii) Modularity</p> <p>(a) Only (i) (b) (ii) and (iii) (c) Only (iii) (d) (i) and (iii)</p> <p>[Understanding]</p>
3.	<p><i>[User Defined Methods]</i></p> <p>Parameters which receive the values from the called method are termed as _____ parameters.</p> <p>(a) actual (b) formal (c) reference (d) class</p> <p>[Understanding]</p>

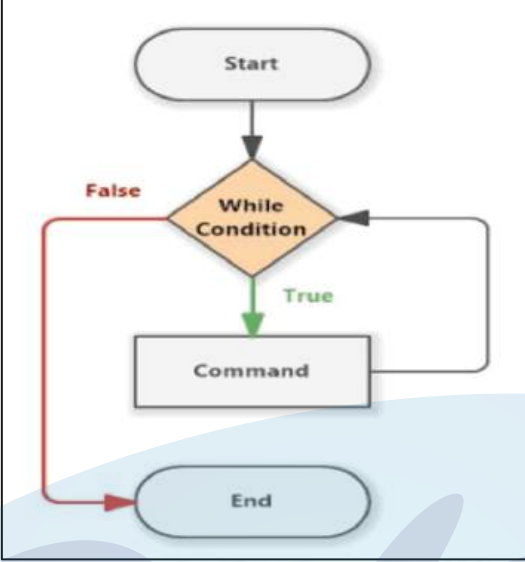
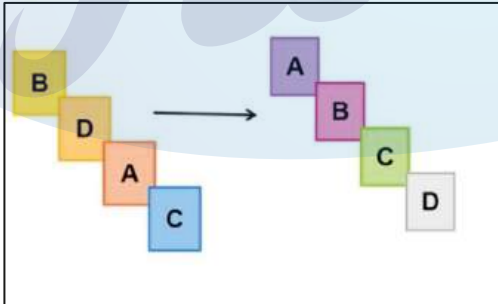
S.No	Questions
4.	<p><i>[User Defined Methods]</i></p> <p>Which of the following is a valid method prototype?</p> <p>(a) public int perform (int a;int b)            (b) public perform (int a, int b)            (c) public int perform (int a, int b)            (d) public perform int (int a, int b)</p> <p style="text-align: right;"><b>[Analysis]</b></p>
5.	<p><i>[User Defined Methods]</i></p> <p>Which of the following is the CORRECT statement to invoke the method with the prototype int display(int a, char ch)?</p> <p>(a) int m = display('A', 45);            (b) int m = display( );            (c) int m = display(A,45);            (d) int m = display(45,'A');</p> <p style="text-align: right;"><b>[Analysis]</b></p>
6.	<p><i>[String handling]</i></p> <p>Which of the following is the CORRECT java statement to convert the word RESPECT to lowercase?</p> <p>(a) "RESPECT".toLowerCase( );            (b) "RESPECT".toLowerCase( );            (c) toLowerCase("RESPECT");            (d) String.toLowerCase("RESPECT");</p> <p style="text-align: right;"><b>[Analysis]</b></p>
7.	<p><i>[Library Classes]</i></p> <p>Which of the following are Wrapper classes?</p> <p>(i) Boolean            (ii) boolean            (iii) character            (iv) Character</p> <p>(a) (i) and (iv)            (b) (ii) and (iv)            (c) (i) and (iii)            (d) (ii) and (iii)</p> <p style="text-align: right;"><b>[Understanding]</b></p>
8.	<p><i>[Library Classes]</i></p> <p>Conversion of a wrapper class to its corresponding primitive type is known as :</p> <p>(a) unboxing            (b) autoboxing            (c) type casting            (d) parsing</p> <p style="text-align: right;"><b>[Understanding]</b></p>

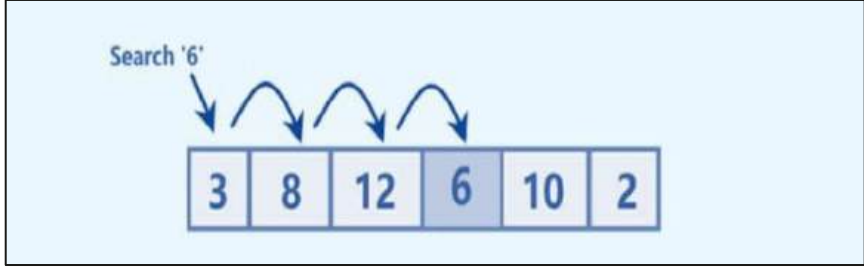
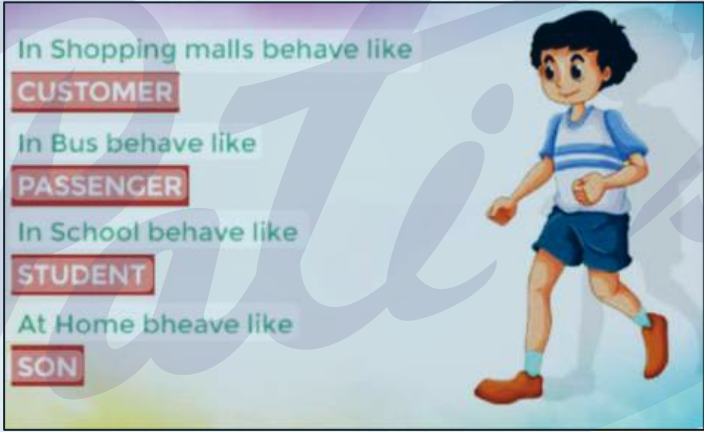
S.No	Questions
<p>9.</p>	<p><i>[String Handling]</i></p> <p>The String method, which results only in a positive integer, is :</p> <p>(a) indexOf            (b) lastIndexOf            (c) compareTo            (d) length</p> <p style="text-align: right;"><b>[Understanding]</b></p>
<p>10.</p>	<p><i>[Library Classes]</i></p> <p>The method to convert a String to double is:</p> <p>(a) String. toDouble()            (b) Double. Parsedouble()            (c) Double. parseDouble(String)            (d) Double. parseDouble( )</p> <p style="text-align: right;"><b>[Understanding]</b></p>
<p>11.</p>	<p><i>[Arrays]</i></p> <p>The java statement System. out. println(x[x. length]) results in:</p> <p>(a) logical error            (b) syntax error            (c) run time error            (d) no error</p> <p style="text-align: right;"><b>[Analysis]</b></p>
<p>12.</p>	<p><i>[Arrays]</i></p> <p>Which of the following is a valid array declaration statement to store the Gender of 80 employees [ 'M'-male, 'F'-female, 'T'-transgender ]?</p> <p>(a) char gender = new char[80];            (b) char gender[] = new char[80];            (c) char gender[80];            (d) char gender[80] = new char[ ];</p> <p style="text-align: right;"><b>[Analysis]</b></p>
<p>13.</p>	<p><i>[Arrays]</i></p> <p>Arrange the following java statements in the correct order of execution to accept values into the array a[]:</p> <p>(i) a[i]=sc. nextInt( );            (ii) int a[]=new int[10];            (iii) Scanner sc=new Scanner(System. in);            (iv) for(i=0;i&lt;10;i++)</p> <p>(a) (i), (ii), (iii), (iv)            (b) (ii), (iii), (iv), (i)            (c) (iv), (iii), (ii), (i)            (d) (iii), (i), (iv), (ii)</p> <p style="text-align: right;"><b>[Analysis]</b></p>

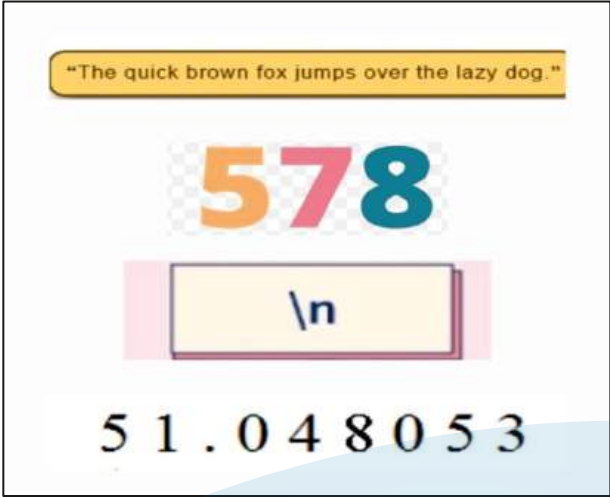
S.No	Questions
<p>14.</p>	<p><i>[Arrays]</i></p> <p>In the bubble sort technique, during each iteration of the inner loop, two adjacent elements are _____ and _____.</p> <p>(i) compared (ii) swapped (iii) selected (iv) deleted</p> <p>(a) (i) and (ii) (b) (ii) and (iii) (c) (iii) and (iv) (d) (ii) and (iv)</p> <p style="text-align: right;"><b>[Understanding]</b></p>
<p>15.</p>	<p><i>[Arrays]</i></p> <p>What is the highest index of any array with 100 elements?</p> <p>(a) 100 (b) 101 (c) 99 (d) 98</p> <p style="text-align: right;"><b>[Recall]</b></p>
<p>16.</p>	<p><i>[User Defined Methods]</i></p> <p>Mr. Sanjay is an event manager, he plans and allots duties to each of his subordinates to handle different events. In a program, a task is divided into simple methods. Name the feature used in these contexts.</p> <p>(a) Complexity (b) Modularity (c) Reusability (d) Monolithic</p> <p style="text-align: right;"><b>[Understanding &amp; Analysis]</b></p>
<p>17.</p>	<p><i>[Input in Java]</i></p> <p>Raj was asked to accept the phone number which has 10 digits, using the appropriate method of Scanner class. Which of the following statement he must choose?</p> <p>(a) Ob. nextInt() (b) Ob. nextDouble() (c) Ob. nextLong() (d) Ob. next().charAt(0)</p> <p style="text-align: right;"><b>[Analysis]</b></p>
<p>18.</p>	<p><i>[String Handling]</i></p> <p>Raj wanted to count the number of digits in a given number without using a loop. Which of the following statements is correct to perform the above?</p> <p>(a) String.valueOf(n).length() (b) Integer.parseInt(n).length() (c) n.length() (d) All the above</p> <p style="text-align: right;"><b>[Analysis]</b></p>

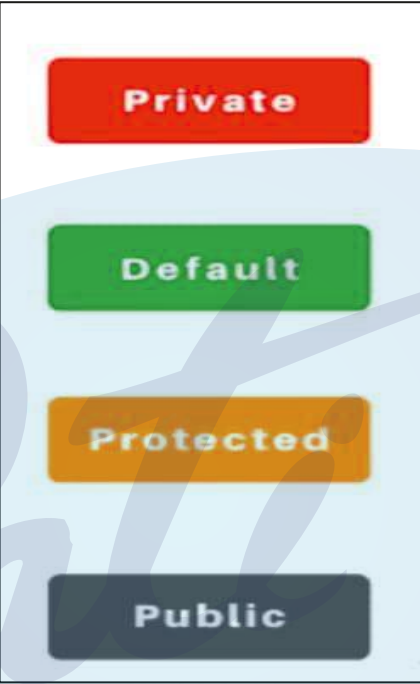
S.No	Questions
<p>19.</p>	<p><i>[String Handling]</i></p> <p>Sham was asked to encode a string S, by replacing the letter E with #. Select the appropriate statement:</p> <p>(a) S.replace('#', 'E')</p> <p>(b) S.replace('E')</p> <p>(c) S.replace('E', '#')</p> <p>(d) S.replace('#')</p> <p style="text-align: right;"><b>[Analysis]</b></p>
<p>20.</p>	<p><i>[String Handling]</i></p> <p>When the String m is compared to n , the result obtained is greater than zero. Which of the following is true?</p> <p>(a) m comes before n in the dictionary.</p> <p>(b) n comes before m in the dictionary.</p> <p>(c) m and n are equal.</p> <p>(d) m and n have the same length.</p> <p style="text-align: right;"><b>[Analysis]</b></p>
<p>21</p>	<p><i>[String Handling]</i></p> <p>Which of the following String methods has integer argument?</p> <p>(i) length</p> <p>(ii) substring</p> <p>(iii) indexOf</p> <p>(iv) charAt</p> <p>(a) Only (ii)</p> <p>(b) (i) and (iv)</p> <p>(c) (ii) and (iv)</p> <p>(d) (iii) and (iii)</p> <p style="text-align: right;"><b>[Analysis]</b></p>
<p>22.</p>	<p><i>[Introduction to Object-Oriented Programming Concepts]</i></p> <p><b>Assertion:</b> Property by virtue of which one class acquires the properties of another class is termed as Inheritance.</p> <p><b>Reason:</b> Inheritance promotes reusability.</p> <p>(a) Assertion is true, Reason is false.</p> <p>(b) Assertion is true, Reason is true.</p> <p>(c) Assertion is false, Reason is false.</p> <p>(d) Assertion is false, Reason is true.</p> <p style="text-align: right;"><b>[Understanding]</b></p>
<p>23.</p>	<p><i>[User Defined Methods]</i></p> <p>Which of the following is NOT true for polymorphism?</p> <p>(a) All methods have the same name.</p> <p>(b) Methods are invoked based on the arguments.</p> <p>(c) Methods should have the same number and the same type of arguments.</p> <p>(d) It is a principle of OOPs.</p> <p style="text-align: right;"><b>[Analysis]</b></p>

S.No	Questions
24.	<p><i>[Values and Datatypes]</i></p> <p>Which of the following is a valid initialisation statement?</p> <p>(a) int x = “GOOD”;            (b) int y = 45.0/2;            (c) int z=(int) ‘x’;            (d) int m = false ;</p> <p style="text-align: right;"><b>[Analysis]</b></p>
25.	<p><i>[Values and Datatypes]</i></p> <p>Which of the following is a valid statement to print the following sentence:  <i>Raj said “Good morning”</i></p> <p>(a) System. out. println(“Raj said “Good morning”);            (b) System. out. println(“Raj said \\Good morning\\”);            (c) System. out. println(“Raj said \\\"Good morning\" ”);            (d) System. out. println(“Raj said Good morning”);</p> <p style="text-align: right;"><b>[Analysis]</b></p>
26.	<p><i>[Arrays]</i></p> <div style="text-align: center;">  </div> <p>Which data structure is represented in the above picture?</p> <p>(i) A two-dimensional array with 2 rows and seven columns.            (ii) A one-dimensional array with 14 elements.</p> <p>(a) Both (i) and (ii)            (b) Only (i)            (c) Only (ii)            (d) None of the (i) and (ii)</p> <p style="text-align: right;"><b>[Application &amp; Analysis]</b></p>

S.No	Questions
<p>27.</p>	<p><i>[Iterative Constructs in Java]</i></p> <div data-bbox="459 421 986 981" style="border: 1px solid black; padding: 10px; margin: 10px auto; width: fit-content;">  <pre> graph TD     Start([Start]) --&gt; While{While Condition}     While -- True --&gt; Command[Command]     Command --&gt; While     While -- False --&gt; End([End])             </pre> </div> <p>What is the type of looping statement depicted in the above picture?</p> <p>(a) Entry controlled loop                  (b) Exit controlled loop                  (c) Multiple branching statement                  (d) All the above.</p> <p style="text-align: right;"><b>[Understanding &amp; Application]</b></p>
<p>28.</p>	<p><i>[Arrays]</i></p> <div data-bbox="331 1328 831 1630" style="border: 1px solid black; padding: 10px; margin: 10px auto; width: fit-content;">  </div> <p>What is the process done in the above picture?</p> <p>(a) Sorting the list in descending order                  (b) Searching the character in the list                  (c) Sorting the list in ascending order.                  (d) None of the above.</p> <p style="text-align: right;"><b>[Understanding &amp; Application]</b></p>

S.No	Questions
<p>29.</p>	<p><i>[Arrays]</i></p> <div data-bbox="379 405 1246 672" style="border: 1px solid black; padding: 10px; text-align: center;">  </div> <p>Name the method of search depicted in the above picture.</p> <p>(a) Binary Search            (b) Selection Sort            (c) Bubble Sort            (d) Linear Search</p> <p style="text-align: right;"><b>[Understanding &amp; Application]</b></p>
<p>30.</p>	<p><i>[User Defined Methods]</i></p> <div data-bbox="469 976 1176 1406" style="border: 1px solid black; padding: 10px;">  </div> <p>Name the feature of Java depicted in the above picture.</p> <p>(a) Encapsulation            (b) Inheritance            (c) Polymorphism            (d) Data abstraction</p> <p style="text-align: right;"><b>[Recall &amp; Understanding]</b></p>

S.No	Questions																
<p>31.</p>	<p><i>[Values and Datatypes]</i></p> <div style="border: 1px solid black; padding: 10px; text-align: center;">  </div> <p>Name the data types in order from top, given in the above picture.</p> <p>(a) int, char, double, String            (b) String, int, char, double            (c) char, double, int, String            (d) int, double, char, String</p> <p style="text-align: right;"><b>[Understanding]</b></p>																
<p>32.</p>	<p><i>[Arrays]</i></p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tbody> <tr> <td>156</td> <td>20</td> <td>154</td> <td>20</td> </tr> <tr> <td>130</td> <td>20</td> <td>130</td> <td>20</td> </tr> <tr> <td>162</td> <td>17.67</td> <td>161</td> <td>20</td> </tr> <tr> <td>158</td> <td>17.5</td> <td>154</td> <td>20</td> </tr> </tbody> </table> <p>How many bytes are occupied by the above two-dimensional array?</p> <p>(a) 96 bytes            (b) 128 bytes            (c) 12 bytes            (d) 24 bytes</p> <p style="text-align: right;"><b>[Understanding]</b></p>	156	20	154	20	130	20	130	20	162	17.67	161	20	158	17.5	154	20
156	20	154	20														
130	20	130	20														
162	17.67	161	20														
158	17.5	154	20														
<p>33.</p>	<p><i>[Java Expressions]</i></p> <p>A girl wanted to calculate the sum of two numbers stored as a and b multiplied by 7. Select the appropriate Java expression.</p> <p>(a) a+b*7            (b) 7*a+b            (c) (a+b)*7            (d) a+7*b</p> <p style="text-align: right;"><b>[Analysis]</b></p>																

S.No	Questions
<p>34.</p>	<p><i>[Arrays]</i></p> <p>The sum of a[1] and a[3] in the array int a[]={20,40,60,80,100} is:</p> <p>(a) 80 (b) 100 (c) 120 (d) 60</p> <p style="text-align: right;"><b>[Evaluate]</b></p>
<p>35.</p>	<div style="text-align: center;">  </div> <p>State which access specifier is less restrictive.</p> <p>(a) private (b) protected (c) default (d) public</p> <p style="text-align: right;"><b>[Recall]</b></p>
<p>36.</p>	<p><i>[Mathematical Library Methods]</i></p> <p>The AMB hotel gives the amount to be paid by the customer as an integer, which of the following Math method rounds off the bill in decimals to an integer?</p> <p>(a) Math.round() (b) Math.pow() (c) Math.ceil() (d) Math.abs()</p> <p style="text-align: right;"><b>[Recall &amp; Understanding]</b></p>

S.No	Questions
37.	<p><i>[Constructors]</i></p> <p><b>Assertion:</b> A class can have multiple constructors</p> <p><b>Reason:</b> Multiple constructors are defined with same set of arguments.</p> <p>(a) Assertion is true, Reason is false.            (b) Both assertion and Reason are false.            (c) Both assertion and Reason are true.            (d) Assertion is false, Reason is true.</p> <p style="text-align: right;"><b>[Understanding &amp; Analysis]</b></p>
38.	<p><i>[Arrays]</i></p> <p><b>Assertion:</b> An array can store elements of different data types</p> <p><b>Reason:</b> An array is a user-defined data type with multiple values of the same data type but a different memory index.</p> <p>(a) Assertion is true, Reason is false.            (b) Both Assertion and Reason are false.            (c) Both Assertion and Reason are true.            (d) Assertion is false, Reason is true.</p> <p style="text-align: right;"><b>[Analysis]</b></p>
39.	<p><i>[Values and Datatypes]</i></p> <p>Which of the following statement is an example for explicit typecasting?</p> <p>(a) <code>int amount = 45;</code>            (b) <code>int amount = 24*24;;</code>            (c) <code>int amount = Integer.parseInt ("45");</code>            (d) <code>int amount = int (45.75);</code></p> <p style="text-align: right;"><b>[Analysis]</b></p>
40.	<p><i>[Mathematical Library Methods]</i></p> <p>The output of the statement <b>Math.ceil. (89.9)+Math.floor(90.5)</b> is:</p> <p>(a) 0.0            (b) 180            (c) 180.0            (d) 180.4</p> <p style="text-align: right;"><b>[Analysis]</b></p>
41.	<p><i>[String Handling]</i></p> <p>The output of the statement of <b>"TIGER". indexOf('G')</b> is:</p> <p>(a) 3            (b) 2            (c) -1            (d) 0</p> <p style="text-align: right;"><b>[Understanding]</b></p>

S.No	Questions
42.	<p><i>[Conditional Constructs in Java]</i></p> <p>Choose the statement which is equivalent to the given:</p> <pre>if(a&gt;b) System.out.println("Honest"); else System.out.println("Sincere");</pre> <p>(a) <code>a&gt;b? System.out.println("Honest");System.out.println("Sincere");</code>            (b) <code>System.out.println(a&gt;b? "Honest": "Sincere");</code>            (c) <code>a&gt;b? "Honest": "Sincere";</code>            (d) <code>a&gt;b: "Honest"? "Sincere";</code></p> <p style="text-align: right;"><b>[Understanding]</b></p>
43.	<p><i>[String Handling]</i></p> <p>The two Java statement are used to check for the equality of the strings "COP" and "cop" are as follows:</p> <pre>"COP".equals("cop") "COP".equalsIgnoreCase("cop")</pre> <p>The output of the above statements is:</p> <p>(a) false, true            (b) true, false            (c) false, false            (d) true, true</p> <p style="text-align: right;"><b>[Understanding]</b></p>
44.	<p><i>[String Handling]</i></p> <p>The output of the java statement <code>"SOLDIER".compareTo("SOLUTE");</code> is</p> <p>(a) -4            (b) -17            (c) 17            (d) 0</p> <p style="text-align: right;"><b>[Application]</b></p>
45.	<p><i>[Arrays]</i></p> <p>Arrange the following in the descending order of number of bytes occupied.</p> <p>(i) <code>char x[20]</code>            (ii) <code>int a[4][2]</code>            (iii) <code>double b[6]</code></p> <p>(a) (iii), (ii), (i)            (b) (iii), (i), (ii)            (c) (ii), (iii), (i)            (d) (i), (ii), (iii)</p> <p style="text-align: right;"><b>[Analysis]</b></p>

S.No	Questions
46	<p><i>[Arrays]</i></p> <p>Sam performs bubble sort on the following array to organise the elements in ascending order:            {5,1,2,3}</p> <p>After the first comparison the array is:            {1,5,2,3}</p> <p>What would be the array after the next comparison?</p> <p>(a) {1,2,5,3}            (b) {1,5,3,2}            (c) {1,3,5,2}            (d) {1,3,2,5}</p> <p style="text-align: right;"><b>[Understanding &amp; Analysis]</b></p>

**Very Short Answer Questions (2 marks)**

S.No	Questions
47.	<p><i>[Mathematical Library Methods]</i></p> <p>Write the java statement for:  <b>Sum of a raised to b and cuberoot of c</b></p> <p style="text-align: right;"><b>[Understanding]</b></p>
48.	<p><i>[User Defined Methods]</i></p> <p>Name the following:</p> <p>(a) Method with the same name as of the class and is invoked every time an object is created.            (b) Keyword to access the classes of a package.</p> <p style="text-align: right;"><b>[Understanding]</b></p>
49.	<p><i>[Library Classes]</i></p> <p>Name the following:</p> <p>(a) A Character method that checks whether a character is an alphabet or a number.            (b) A Math method that does not have an argument.</p> <p style="text-align: right;"><b>[Understanding]</b></p>

S.No	Questions
<p>50.</p>	<p><i>[String Handling]</i></p> <p>Cyber police wanted to investigate a case; they wanted to check a list of phone numbers that had 945 anywhere in the phone number. Example: 7394567938, 7685483945..., a method was created to convert the phone number in long data type to a string and check for the existence of the number 945. Fill in the blanks (a) and (b) in the given method with appropriate Java statements:</p> <pre> void check(long pno) { String s = _____ (a) _____;   if(_____ (b) _____)     System.out.println(pno); }</pre> <p style="text-align: right;"><b>[Analysis]</b></p>
<p>51.</p>	<p><i>[String Handling]</i></p> <p>A manager wants to check the number of employees with names ending with KUMAR, and fill in the blanks in the given program segment with appropriate Java statements:</p> <pre> void count(String s[]) {   int i, l=_____, c=0;   for(i=0;i&lt;l;i++)   {     if(_____)       c++;   }   System.out.println(c); }</pre> <p style="text-align: right;"><b>[Application]</b></p>
<p>52.</p>	<p><i>[String Handling]</i></p> <p>The output of a program which extracts a part of the string “COMPASSION” is as follows:</p> <p>(a) “PASS”  (b) “PASSION”</p> <p>Write appropriate Java statements to get the above outputs.</p> <p style="text-align: right;"><b>[Application]</b></p>

S.No	Questions
<p>53.</p>	<p><i>[Iterative Constructs in Java]</i></p> <p>Give the output of the following program segment:</p> <pre> for(k=a;k&lt;=a*b;k+=a) { if (k%b==0)     break; } System.out.println(k); </pre> <p>Give the output when a=6, b= 4.</p> <p style="text-align: right;"><b>[Application]</b></p>
<p>54.</p>	<p><i>[Library Classes]</i></p> <p>Kamal wants to display only the alphabets stored in a character array. While compiling the code, an error was displayed. Check for the statement with the error and write the correct statement.</p> <pre> char arr[]={‘4’, ‘&amp;’, ‘a’, ‘w’, ‘d’}; int i; for(i=0;i&lt;arr.length;i++) { if(Character.isLetter(arr)) System.out.println(arr); } </pre> <p style="text-align: right;"><b>[Application]</b></p>
<p>55.</p>	<p><i>[Values and Datatypes]</i></p> <p>Name the type of type casting in the given statements:</p> <p>(a) double m = ‘b’;</p> <p>(b) char ch = (char) 68;</p> <p style="text-align: right;"><b>[Understanding]</b></p>
<p>56.</p>	<p><i>[Mathematical Library Methods; String Handling]</i></p> <p>Write Java statements for the following:</p> <p>(a) To assign the cube root of -343 to a variable with the appropriate datatype.</p> <p>(b) To assign the position of the last occurrence of @ in the String s with the appropriate datatype.</p> <p style="text-align: right;"><b>[Understanding]</b></p>
<p>57.</p>	<p><i>[Operators]</i></p> <p>Mention the output of this code snippet:</p> <pre> int lives = 5;  System.out.println(lives--);  System.out.println(lives); </pre> <p style="text-align: right;"><b>[Analysis]</b></p>

S.No	Questions
58.	<p><i>[Iterative Constructs in Java]</i></p> <p>Convert the following for loop segment to an exit-controlled loop.</p> <pre>for(k=10;k&gt;= -1;k- -) System. out. println(k*2); System. out. println(k*4);</pre> <p style="text-align: right;"><b>[Analysis]</b></p>
59.	<p><i>[Arrays]</i></p> <p>Give the output of the following program segment:</p> <pre>int x[]={2,45,7,67,12,3}; int i, t=0; for(i=0, t=5;i&lt;3;i++,t- -) { System. out. println(x[i]+x[t]; }</pre> <p style="text-align: right;"><b>[Analysis]</b></p>
60.	<p><i>[Arrays]</i></p> <p>Write Java statements for the following:</p> <p>(a) Initialise the array with the three favourite subjects.  (b) Declare an array to store the marks in 3 subjects of 40 students. <b>[Understanding]</b></p>
61.	<p><i>[Mathematical Library Methods]</i></p> <p>A Student executes the given program segment and it results in 1.0, irrespective of the value of n. State the type of the error, write the correct statement:</p> <pre>void solve(int n) { double power=Math. pow(n, 2/3); System. out. println(power); }</pre> <p style="text-align: right;"><b>[Understanding]</b></p>
62.	<p><i>[Encapsulation]</i></p> <p>Consider the following program segment and answer the questions given:</p> <pre>for(int k=1;k&lt;=5;k++) System. out. println(k); System. out. println(k);</pre> <p>(a) Will the program segment get executed successfully?  (b) If not, state the type of error?  (c) How do you correct the program if it has any error?</p> <p style="text-align: right;"><b>[Analysis]</b></p>

S.No	Questions
<p>63.</p>	<p><i>[Arrays]</i></p> <p>Consider the array:  int a[]={12,35,40,22,56,9,70};</p> <p>(a) In the above given array, using linear search, how many iterations are required to check for the existence of the value 56?</p> <p>(b) If the array is arranged in descending order, how many iterations are required to check for the existence of 56 using linear search? <span style="float: right;"><b>[Analysis]</b></span></p>
<p>64.</p>	<p><i>[Evaluation of Expressions]</i></p> <p>Evaluate the expression:  <math>3*6\%5*4/2*7\%5</math> <span style="float: right;"><b>[Evaluate]</b></span></p>
<p>65.</p>	<p><i>[Arrays]</i></p> <p>Consider the following program which calculates the Norm of a matrix. Norm is square root of sum of squares of all elements.</p> <p>Fill in the blanks (a) and (b) with appropriate java statements:</p> <pre>double norm() { intx[][]={{1,5,6},{4,2,9},{6,1,3}}; int r, c, sum=0; for(r=0;r&lt;3;r++) { for( c=0;c&lt;3;c++) sum=sum+ _____ (a) _____; } _____ (b) _____; }</pre> <p style="text-align: right;"><b>[Analysis]</b></p>
<p>66.</p>	<p><i>[Nested for Loops]</i></p> <p>Give the output of the following program segment:</p> <pre>for(r=1;r&lt;=3;r++) { for(c=1;c&lt;r;c++) { System.out. println(r); } }</pre> <p style="text-align: right;"><b>[Analysis]</b></p>

S.No	Questions
<p>67.</p>	<p><i>[String Handling]</i></p> <p>Give the output of the following program segment:</p> <pre> void encode() {     String s= "DICE";     char ch;     for(i=0;i&lt;4;i++)     { ch=s. charAt(i);       if("AEIOUaeiou". indexOf(ch)&gt;=0)         System.out. println("@");     }     else     System.out. println(ch); } </pre> <p style="text-align: right;"><b>[Analysis]</b></p>
<p>68.</p>	<p><i>[Arrays]</i></p> <p>Name the following:</p> <p>(a) What is the main condition to perform binary search on an array?  (b) A sort method in which consecutive elements are NOT compared.</p> <p style="text-align: right;"><b>[Understanding]</b></p>
<p>69.</p>	<p><i>[Input in Java]</i></p> <p>Answer the following:</p> <p>(a) Scanner class method to accept a character.  (b) Jump statement which stops the execution of a construct.</p> <p style="text-align: right;"><b>[Understanding]</b></p>
<p>70.</p>	<p><i>[Iterative Constructs in Java]</i></p> <p>How many times the given loop is executed? Give the output of the same.</p> <pre> for(k=10;k&lt;=20;k+=4) {     System.out. println(k);     if(k%3==0) continue; } </pre> <p style="text-align: right;"><b>[Analysis]</b></p>

**Long Answer Questions (15 marks)**

S.No	Questions
<p>71.</p>	<p><i>[User Defined Methods]</i></p> <p>The BHDB company offer EMI (Equated Monthly Instalments) based loans for the purchase of electronic devices based on the purchase amount the rate of interest is offered as follows:</p> <p>Purchase amount less than Rs.20000, rate of interest is 12% otherwise the rate of interest is 15%.</p> <p>Amount with interest for the specified number of years is calculated using the formula</p> $\text{Amount} = p(1+r/100)^n$ <p>Where p is the purchase amount, r is the rate of interest, n is the number of years.</p> <p>After the amount is calculated it is converted into EMI by dividing the amount by the number of months of the tenure, which has to be a whole number rounded off to the nearest integer.</p> <p>Print the details as follows:</p> <p>Purchase amount:</p> <p>Rate of interest:</p> <p>Amount with interest:</p> <p>EMI:</p> <p>Define a class to accept the purchase amount and the number of years of the tenure, calculate and print the details as per the above specifications. <span style="float: right;"><b>[Application]</b></span></p>
<p>72.</p>	<p><i>[Iterative Constructs in Java]</i></p> <p>Define a class to accept a four-digit number and check if it is a USHWA number or not. The number is said to be USHWA</p> <p>Accept a four digit number . If:</p> <p>Sum of all digits= 2× ( sum of first and last)</p> <p style="padding-left: 40px;">Example: n =1234</p> <p>Sum of first and last</p> <p>= 1+4=5</p> <p>Sum of all digits =1+2+3+4=10</p> <p>Example 2</p> <p>If the input value is 354, then a error message should be given as the number has only 3 digits. <span style="float: right;"><b>[Create]</b></span></p>

S.No	Questions
73.	<p><i>[Iterative Constructs in Java; Nested for Loops]</i></p> <p>(a) Define a class to print the Floyds triangle of given rows using nested loops only.            Example:            A Floyd triangle of 6 rows is</p> <pre> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21           </pre> <p>(b) Define a class to print the sum of the following series:  <math>1+(1+2)+(1+2+3)+\dots+(1+2+3+\dots+20)</math></p> <p style="text-align: right;"><b>[Analysis]</b></p>
74.	<p><i>[String Handling]</i></p> <p>A student appearing for the ICSE/ISC examination will be given an index number, which is of the following format:            Number of 7 digits/number of 3 digits.            The first digit represents ICSE(1) or ISC(2), the next two digits represent the year, the next four digits represent the centre number, the last 3 digits represent the index number.            Example:            1244311/204            Class: 10            Year: 24            Centre number: 4311            Index number: 204            Example :            2259856/107            Class: 12            Year: 25            Centre number: 9856            Index number:107            Define a class to accept the student index number as a String and print his/her details as above.</p> <p style="text-align: right;"><b>[Analysis]</b></p>

S.No	Questions
75.	<p><i>[Arrays]</i></p> <p>Define a class to accept values into a 3x3 array and check if it is a Losho grid or not. A grid is a Losho grid if the sum of each row and column equals 15.</p> <p>Print appropriate messages.</p> <p>Example: 4 9 2                      3 5 7                      8 1 6</p> <p style="text-align: right;"><b>[Application]</b></p>
76.	<p><i>[User Defined Methods; Arrays; String Handling]</i></p> <p>Define a class to overload the method that performs as follows :</p> <p>void perform(int x[]) - to display the largest element of the array.</p> <p>Example:            {4, 5, 16, 6, 12, 9}            Largest: 16</p> <p>void perform (String s, char ch)</p> <p>If ch is 'F' print the first 5 characters, if ch is 'L' print the last 5 characters</p> <p>Example: s= "CARPENTER"                  ch = F            Output: CARPE                  ch = L            Output: ENTER</p> <p>void perform(int n) : to print the Product of the first and last digits of the number</p> <p>Example: if n = 45326            Output: 4x6=24</p> <p style="text-align: right;"><b>[Application]</b></p>
77.	<p><i>[User Defined Methods]</i></p> <p>Rahul was asked to create a class with methods to calculate the area of a triangle (<math>\frac{1}{2} b h</math>), the area of a square (<math>s \times s</math>), the area of a trapezium (<math>\frac{1}{2} h(a+b)</math>), the area of a rectangle (<math>l \times b</math>). He created a class by giving the same name to all the methods as area. Name the element of Java used in the program. Define a class with the four methods with the same name.</p> <p style="text-align: right;"><b>[Application]</b></p>

S.No	Questions										
78.	<p><i>[Arrays]</i></p> <p>A teacher prepares the statistics of 100 students in ICSE 2024 on the subject Computer Applications as follows:</p> <table><thead><tr><th>Range</th><th>No. Of students</th></tr></thead><tbody><tr><td>Above 90</td><td></td></tr><tr><td>80 - 90</td><td></td></tr><tr><td>60 - 80</td><td></td></tr><tr><td>Below 60</td><td></td></tr></tbody></table> <p>Define a class to accept the marks of 100 students in an array and print the statistics as mentioned above. <b>[Application]</b></p>	Range	No. Of students	Above 90		80 - 90		60 - 80		Below 60	
Range	No. Of students										
Above 90											
80 - 90											
60 - 80											
Below 60											
79.	<p><i>[String handling]</i></p> <p>Sam designs a program to check the strength of a password. A strong password should satisfy the following conditions:</p> <ul style="list-style-type: none"><li>→length of the password should be atleast 12 characters</li><li>→should atleast have 4 upper case letters, 4 lower case letters, 2 digits, 2 special characters</li></ul> <p>Define a class accept the password and check whether the password is strong or not. <b>[Application]</b></p>										

## Answer Key

S.No.	Expected Answers
1.	(c) Syntax error
2.	(d) (i) and (iii)
3.	(b) formal
4.	(c) public int perform(int a, int b)
5.	(d) int m = display(45, 'A');
6.	(b) "RESPECT". toLowerCase( );
7.	(a) (i) and (iv)
8.	(a) unboxing
9.	(d) length
10.	(c) Double. parseDouble(String)
11.	(c) run time error
12.	(b) char gender[]=new char[80];
13.	(b) (ii), (iii), (iv), (i)
14.	(a) (i) and (ii)
15.	(c) 99
16.	(b) Modularity
17.	(c) Ob. nextLong()
18.	(a) String.valueOf(n).length()
19.	(c) S. replace('E', '#')
20.	(b) <i>b</i> comes before <i>a</i> in the dictionary
21.	(c) (ii) and (iv)
22.	(b) Assertion is true, Reason is true.
23.	(c) Methods should have the same number and the same type of arguments.
24.	(c) int z = (int) 'x';

S.No.	Expected Answers
25.	(c) System.out.println("Raj said \\"Good morning\\" ");
26.	(b) only (i)
27.	(a) Entry controlled loop
28.	(c) Sorting the list in ascending order.
29.	(d) Linear Search
30.	(c) Polymorphism
31.	(b) String, int, char, double
32.	(b) 128 bytes
33.	(c) (a+b)*7
34.	(c) 120
35.	(d) public
36.	(a) Math.round()
37.	(a) Assertion is true, Reason is false.
38.	(d) Assertion is false, Reason is true.
39.	(a) int amount = (int) value/INR
40.	(c) 180.0
41.	(b) 2
42.	(b) System.out.println(a>b? "Honest": "Sincere");
43.	(a) false,true
44.	(a) -17
45.	(b) (iii), (i), (ii)
46.	(a) {1,2,5,3}
47.	Math.pow(a, b)+Math.cbrt(c)
48.	(a) Constructor (b) Import

S.No.	Expected Answers
49.	(a) Character.isLetterOrDigit(char) (b) Math. random()
50.	(a) s=String. toValue(pno) (b) s. indexOf("945")>=0
51.	s.length s[i]. endsWith("KUMAR")
52.	(a) "COMPASSION". substring(3,7) (b) "COMPASSION". substring(3)
53.	a    b    k 6   4    6 (6%4 is not zero) 6   4    12 (12%4 is zero) Output : 12
54.	<b>Statements with error:</b> if(Character. isLetter(arr)) System.out. println(arr) <b>Corrected statements:</b> if(Character. isLetter(arr[i])) System.out. println(arr[i])
55.	(a) Implicit type casting (b) Explicit type casting
56.	(a) double c = Math.cbrt(-343); (b) int p = s.lastIndexOf('@');
57.	5 4
58.	k=10; do { System. out. println(k*2); k- -; }while(k>=-1); System. out. println(k*4);

S.No.	Expected Answers																					
59.	<table border="1"> <thead> <tr> <th>i</th> <th>t</th> <th>x[i]</th> <th>x[t]</th> <th>output</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>5</td> <td>2</td> <td>3</td> <td>5</td> </tr> <tr> <td>1</td> <td>4</td> <td>45</td> <td>12</td> <td>57</td> </tr> <tr> <td>2</td> <td>3</td> <td>7</td> <td>67</td> <td>74</td> </tr> </tbody> </table>	i	t	x[i]	x[t]	output	0	5	2	3	5	1	4	45	12	57	2	3	7	67	74	
i	t	x[i]	x[t]	output																		
0	5	2	3	5																		
1	4	45	12	57																		
2	3	7	67	74																		
60.	<p>(a) String subject[]={"Computer applications", "Physics", "Mathematics"};</p> <p>(b) int m[][]=new int[40][3]; / int m[][]=new int[3][40];</p>																					
61.	<p>Logical error</p> <p>Correct statement: power=Math.pow(n, 2.0/3);</p>																					
62.	<p>No</p> <p>Syntax error</p> <p>k has to be declared outside the loop</p> <pre>int k; for(k=1;k&lt;=5;k++)</pre>																					
63.	<p>(a) 5</p> <p>(b) 2</p>																					
64.	<p><math>18\%5*4/2*7\%5</math></p> <p><math>3*4/2*7\%5</math></p> <p><math>12/2*7\%5</math></p> <p><math>6*7\%5</math></p> <p><math>42\%5</math></p> <p>2</p>																					
65.	<p>(a) x[r][c]*x[r][c]</p> <p>(b) return Math.sqrt(sum)</p>																					
66.	<table border="1"> <thead> <tr> <th>r</th> <th>c</th> <th>output</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1</td> <td></td> </tr> <tr> <td>2</td> <td>1</td> <td>2</td> </tr> <tr> <td></td> <td>2</td> <td></td> </tr> <tr> <td>3</td> <td>1</td> <td>3</td> </tr> <tr> <td></td> <td>2</td> <td>3</td> </tr> <tr> <td></td> <td>3</td> <td></td> </tr> </tbody> </table>	r	c	output	1	1		2	1	2		2		3	1	3		2	3		3	
r	c	output																				
1	1																					
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	2																					
3	1	3																				
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	3																					

S.No.	Expected Answers															
67.	D @ C @															
68.	(a) Array should be sorted. (b) Selection sort.															
69.	(a) <Scanner object>. next(). charAt(0) (b) break															
70.	<table border="0"> <thead> <tr> <th>k</th> <th>output</th> <th>count</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>10</td> <td>1</td> </tr> <tr> <td>14</td> <td>14</td> <td>2</td> </tr> <tr> <td>18</td> <td></td> <td>3</td> </tr> <tr> <td>22</td> <td></td> <td></td> </tr> </tbody> </table> <p>Loop is executed 3 times</p>	k	output	count	10	10	1	14	14	2	18		3	22		
k	output	count														
10	10	1														
14	14	2														
18		3														
22																

```
71.  Import java.util.*;
      class emi
      {
      double pa, r, amount; int n;
      Scanner ob=new Scanner(System.in);
      void accept()
      {
      System.out.println("enter purchase amount");
      pa=ob.nextDouble();
      System.out.println("enter no. Of years");

      n=ob.nextDouble();
      }
      void calculate()
      {
      if(pa<=20000)
      r=12;
      else
      r=15;
      amount=p*Math.pow(1+r/100,n);
      emi=amount/(n*12);
      }
      void print()
      {
      System.out.println("purchase amount="+pa);
      System.out.println("rate of interest="+r);
      System.out.println("amount="+amount);
      System.out.println("emi="+Math.round(emi));
      }
      static void main()
      {
      emi e=new emi();
      e.accept();
      e.calculate();
      e.print();
      }
```

S.No.	Expected Answers
72.	<pre> Class ushwa {     int n;     ushwa(int x)     { n=x;     }     void ushwa()     {         if(String.valueOf(n).length()!=4)         { System.out. println(“Invalid”);           System.exit(0);         }         int f, d,s=0;         f=n%10;         while(n&gt;0)         { d=n%10;           s=s+d;           n=n/10;         }         if(s==2*(f+d))         System. out. println(“Ushwa number”);         else         System. out.println(“not an ushwa number”);     } } </pre>

S.No.	Expected Answers
73.	<pre> a) class floyd {     void print(int n)     {         int r, c, k=1;         for(r=1;r&lt;=n;r++)         {             for(c=1;c&lt;=r;c++)             {                 System.out.print(k);                 k++;             }             System.out.println();         }     } }  b) class sumseries {     void calculate()     {         int i, s=0, sum=0;         for(i=1;i&lt;=20;i++)         {             s=s+i;             sum=sum+s;         }         System.out.println("Sum="+sum);     } } </pre>

S.No.	Expected Answers
74.	<pre> class index {     String s;     index(String x)     {         s=x;     }     void print()     {         int p=s.indexOf('/');         char c = s.charAt(0);         int y=Integer.parseInt(s.substring(1,3));         String centre=s.substring(3, p);         String n = s.substring(p+1);         if(c=='1')             System.out.println("Class :"+10);         if(c=='2')             System.out.println("Class :"+12);         System.out.println("Year :"+y);         System.out.println("Centre number :"+centre);         System.out.println("Index number :"+n);     } }                     </pre>

S.No.	Expected Answers
75.	<pre> import java. util.*; class losho_grid {     int x[][]=new int[3][3];     Scanner ob=new Scanner(System. in);     void accept()     { int r, c;       for(r=0;r&lt;3;r++)       { for(c=0;c&lt;3;c++)         { System. out. println(“Enter the value”);           x[r][c]=ob. nextInt();         }       }     }     void check()     { int r, c, rtot=0,ctot=0; →(1)       for(r=0;r&lt;3;r++) → (1)       { for(c=0;c&lt;3;c++) →(1)         { rtot+=x[r][c]; →(1)           ctot+=x[r][c]; →(1)         }       }       if(rtot!=15  ctot!=15) →(2)       { System. out. println(“Not a loshogrid”); →(1)         System. exit(0);       }       rtot=0;ctot=0; →(2)     }     System. out. println(“losho grid); →(1)   } } </pre> <p>*declaration and accepting the array →2 marks</p> <p>List of variables →2 marks</p>

S.No.	Expected Answers
76.	<pre> class overload { void perform(int x[]) →(1) { int i, l=x. length, large=x[0];→(1) for (i=0;i&lt;l;i++)→(1) { if (x[i]&gt; large)→(1) x[i]=large;→(1) } System. out. println(large);→(1) } void perform(String s, char ch)→(1) { int l=s.length();→(1) if (ch=='F')→(1) System. out.println(s. substring(0,5);→(1) if (ch=='L') System. out. println(s.substring(1-5);→(1) } void perform(int n) { int d, p=1;→(1) while(n&gt;0)→(1) { d=n%10; p= p*d; n=n/10;→(1) } System.out.println((p));→(1) } } </pre>

S.No.	Expected Answers
77.	<pre> class polygon {     void area(double b, double h)     {         System.out.println("Area of triangle="+1.0/2*b*h);     }     void area(double s)     { System.out. println("Area of square="+s*s);     }     void area(double h, double a, double b)     {         System.out. println("Area of trapezium="+1.0/2*h*(a+b));     }     void area(int l, int b)     {         System. out.println("Area of rectangle="+l*b);     } }                     </pre> <p>Feature - polymorphism(overloading)</p>

```
78. import java.util.*
class statistics
{
int x[]=new int[100];
Scanner ob = new Scanner (System.in);
void accept()
{
int i;
for(i=0;i<100;i++)
{
System.out.println("Enter marks");
x[i]=ob.nextInt();
}
void statistics()
{
int i, a=0,b=0,c=0,d=0;
for(i=0;i<100;i++)
{
if(x[i]>90)
a++;
else
if(x[i]>80&&x[i]<=90)
b++;
else
if(x[i]>60&&x[i]<=80)
c++;
else
d++;
}
System.out.println("Range\tNumber of students");
System.out. println("Above 90"+'\t'+a);
System.out. println("80 - 90"+'\t'+b);
System.out.println("60 - 80"+'\t'+c);
System.out. println("<=60"+'\t'+d);
}
}
```

S.No.	Expected Answers
79.	<pre> class strength { String s; strength(String z) { s=z; } boolean strength() { int i, l=s. length(); char ch, uc=0,lc=0,d=0,sp=0; if (l&lt;12) return false; for(i=0;i&lt;l;i++) { ch=s. charAt(i); if(Character.isUpperCase(ch)) uc++; if(Character.isLowerCase(ch)) lc++; if(Character.isDigit(ch)) d++; if(!Character.isLetterOrDigit(ch)) sp++; } if (uc&lt;4) return false; if(lc&lt;4) return false; if(d&lt;2) return false; if(sp&lt;2) return false; return true; } } </pre>

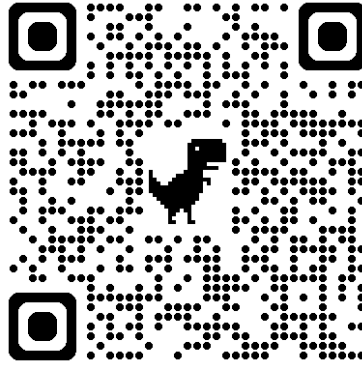


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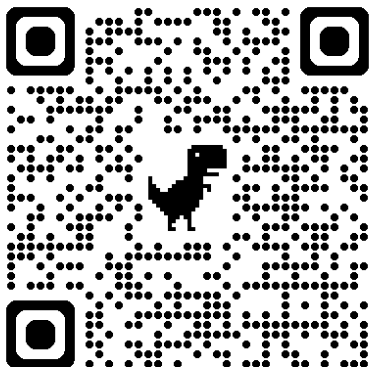
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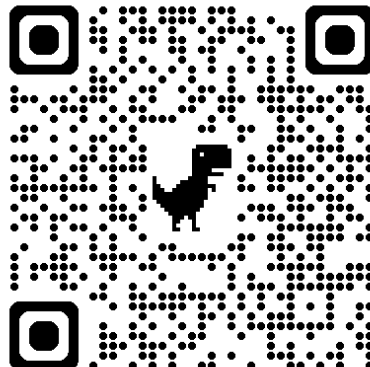
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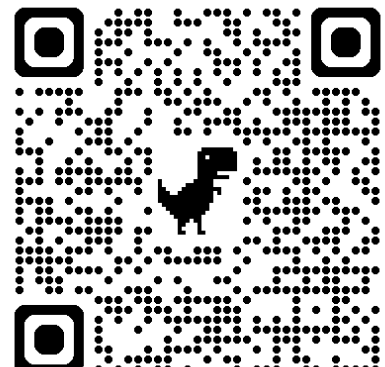
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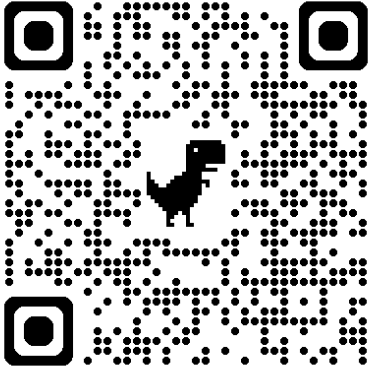
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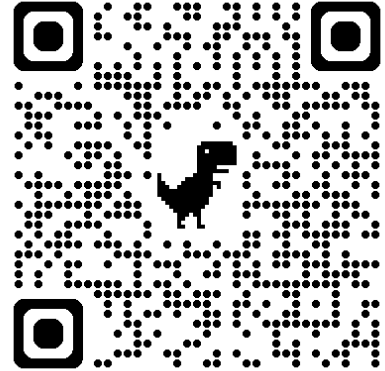
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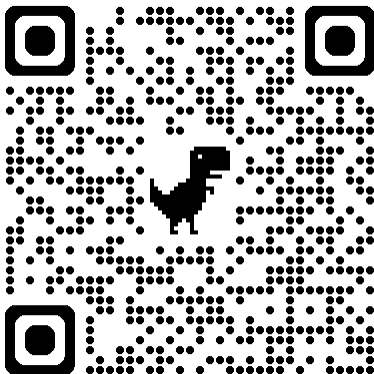
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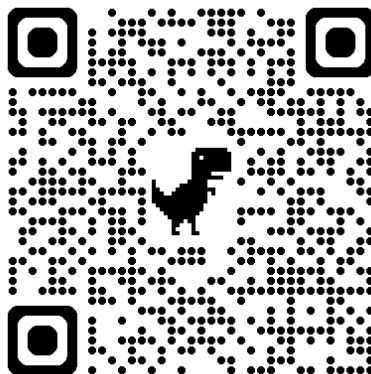
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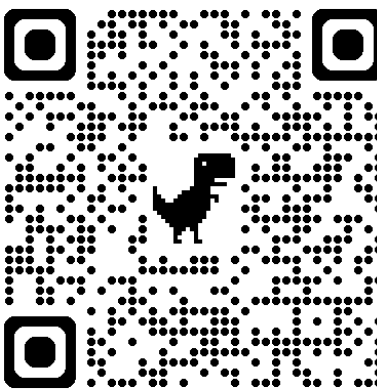
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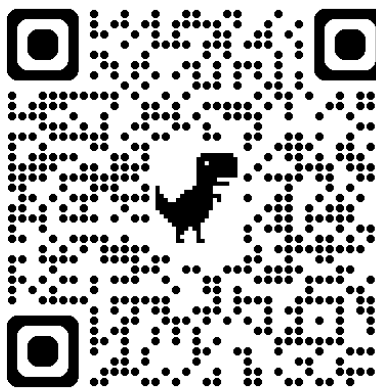
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