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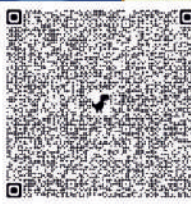
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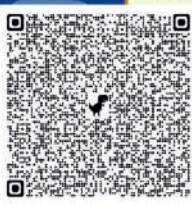
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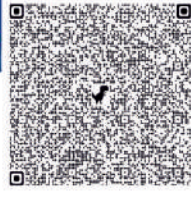
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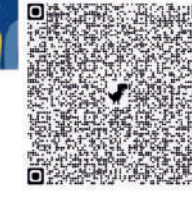
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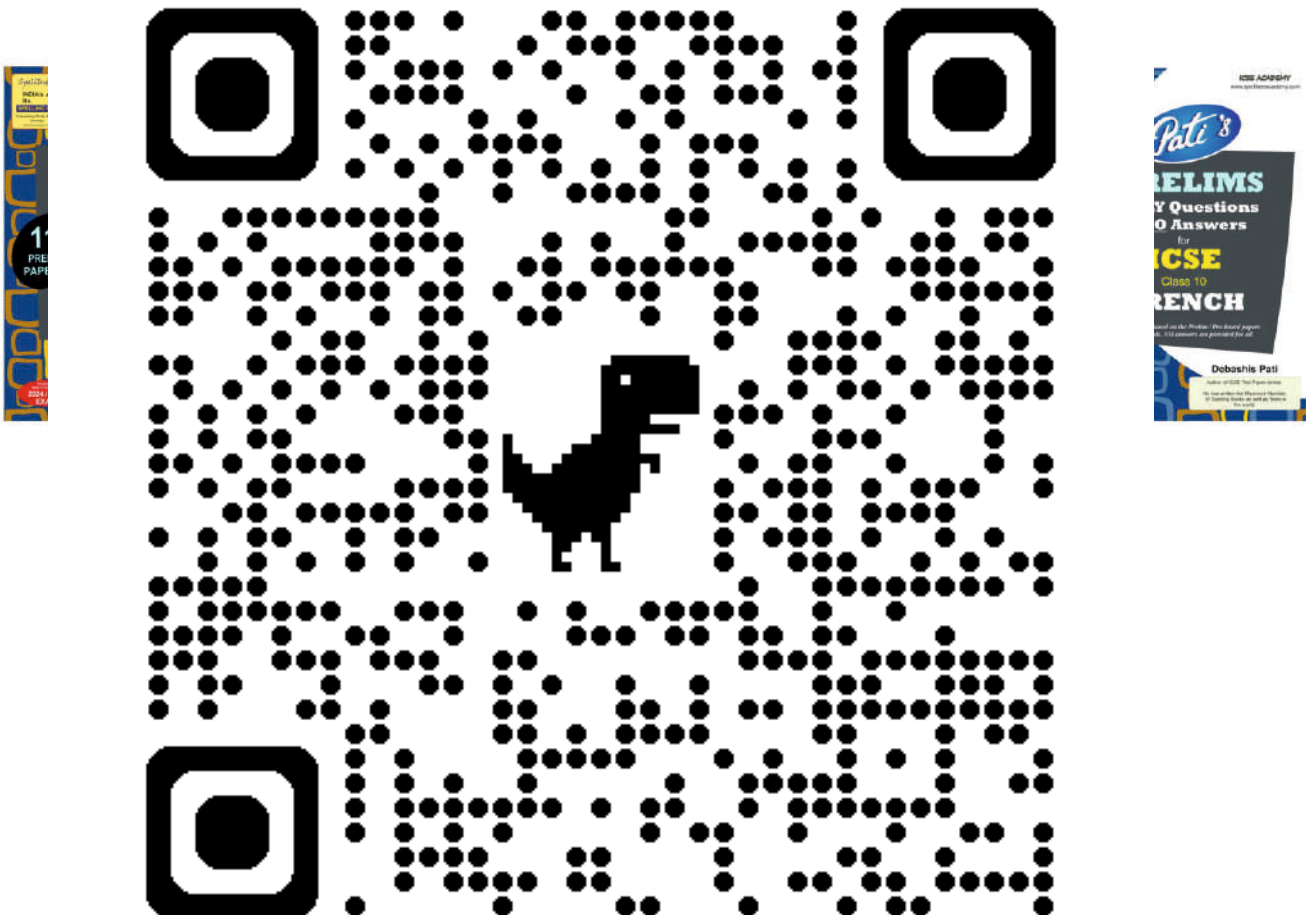
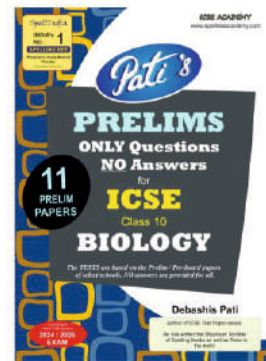
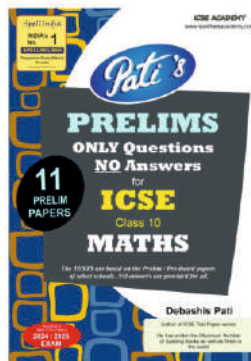
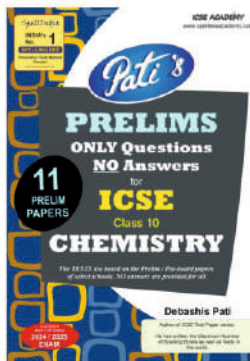
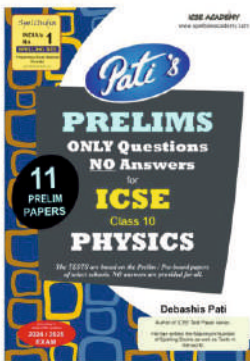
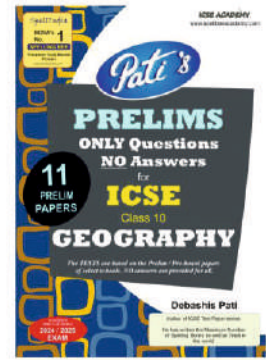
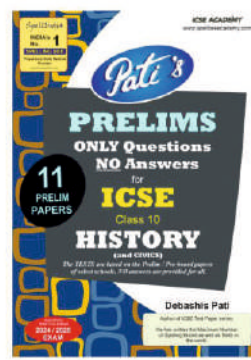
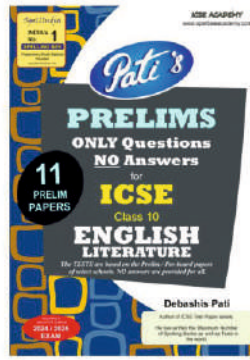
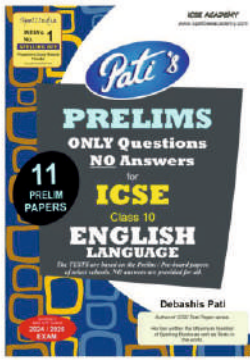
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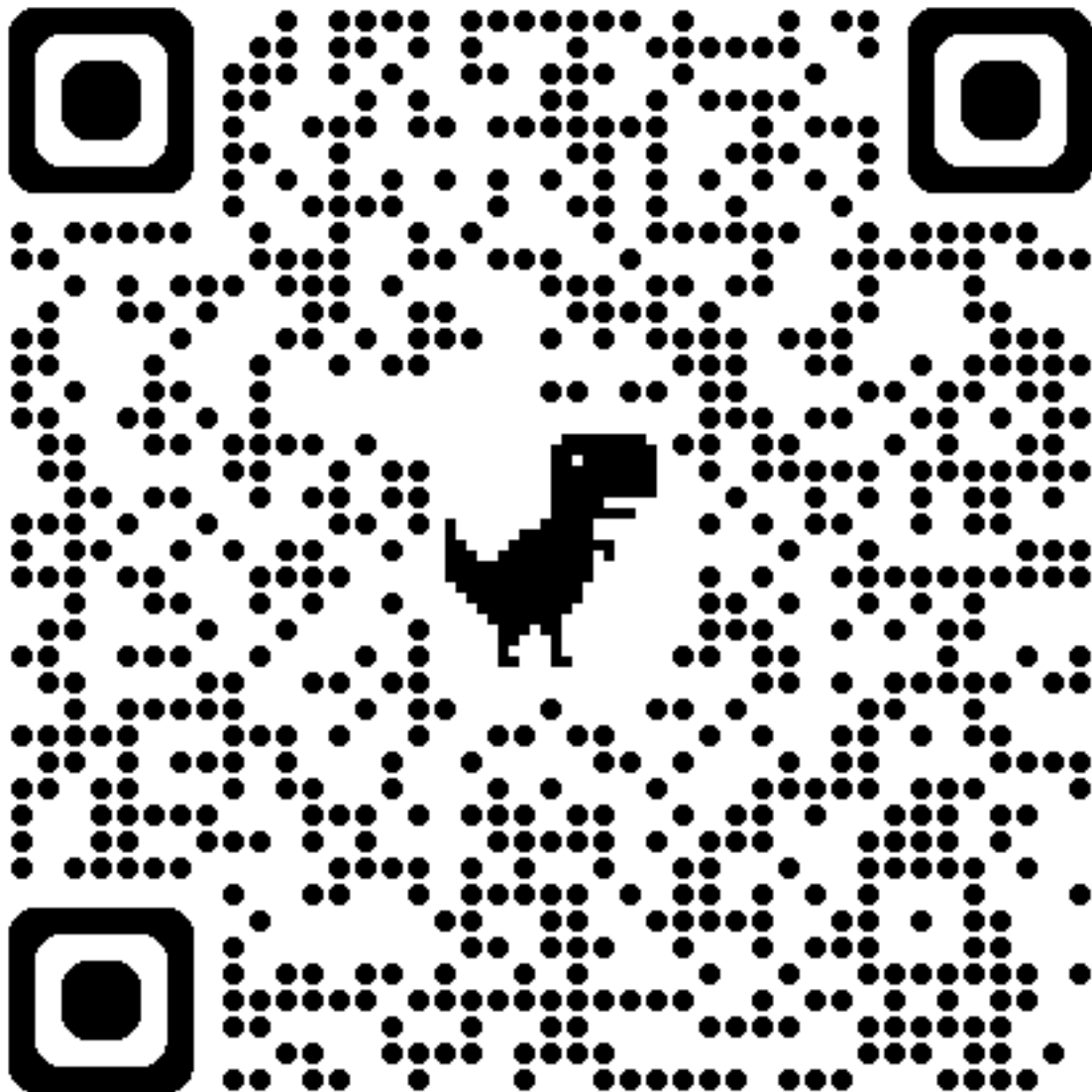
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QUESTION PAPER 1

CLASS-X
COMPUTER APPLICATIONS

SECTION A

(Attempt all questions from this Section.)

Question 1

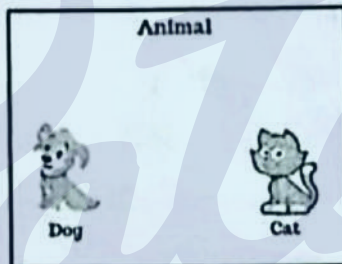
Choose the correct answers to the questions from the given options.

(Do not copy the question, write the correct answers only.)

[20]

(i) Name the feature of java depicted in the picture.

- (a) Encapsulation
- (b) Inheritance
- (c) Abstraction
- (d) Polymorphism

(ii) Datatype can be used for storing the long fractional value of $p=3.174896$ is:

- (a) long
- (b) float
- (c) double
- (d) int

(iii) Ternary operator is a:

- (a) logical operator
- (b) arithmetic operator
- (c) relational operator
- (d) conditional operator

(iv) Multiple branching statements of Java is:

- (a) for
- (b) while
- (c) do-while
- (d) switch

(v) When primitive data type is converted to a corresponding object of its class, it is called:

- (a) Boxing
- (b) Unboxing
- (c) explicit type conversion
- (d) implicit type conversion

(vi) Java statement to access the 5th element of an array is

- (a) X[4]
- (b) X[5]
- (c) X[3]
- (d) X[0]

(vii) Which of the foll

- 1. 4
- 2. 4.0
- 3. 4.3f
- 4. "four"

- (a) Only 1.
- (b) 1. and 3.
- (c) 2. and 4.
- (d) 1. and 2.

(viii) What Will be the output for:

```
System.out.print(Character.toLowerCase('1'));
```

- (a) 0
- (b) 1
- (c) A
- (d) true

(ix) The method to check if a character is an alphabet or not is :

- (a) isLetter(char)
- (b) isAlpha(char)
- (c) isUppercase(char)
- (d) isLowercase(char)

(x) The array `int x[10]` occupies:

- (a) 10 bytes
- (b) 40 bytes
- (c) 20 bytes
- (d) 80 bytes

(xi) Name the type of error that occurs for the following statement :

```
System.out.println(Math.sqrt(24-25));
```

- (a) Syntax error
- (b) runtime error
- (c) logical error
- (d) no error

(xii) Assertion(A): call by value is known as pure method

Reason(R): The original value of variable does not change as operation is performed on copied values.

- (a) Both Assertion (A) and Reason (R) are true and Reason (R) is a correct explanation of Assertion (A)
- (b) Both Assertion (A) and Reason (R) are true and Reason (R) is not a correct explanation of Assertion (A)
- (c) Assertion (A) is false and Reason (R) is true
- (d) Assertion (A) is true and Reason (R) is false

(xiii) Identify the correct array declaration statement:

- (a) `int a[10];`
- (b) `int a[]=new int[10];`
- (c) `int arr[i]=10;`
- (d) `int a[10]=new int[];`

(xiv) Give the output of the following code:

```
String A = "26.0",  
B = "74.0";  
double C = Double.parseDouble(A);  
double D = Double.parseDouble(B);  
System.out.println((C+D));
```

- (a) 26
- (b) 74
- (c) 100.0
- (d) 2674

(xv) Rewrite the following loop using for loop:

```
while (true)  
System.out.print("*");
```

- (a) for (false)
System.out.print("*");
- (b) for (; ;)
System.out.print("*");
- (c) for (int i=1; i<=10; i++)
System.out.print("*");
- (d) for (int x=9; x>=0; x--)
System.out.print("*");

(xvi) What is the output of the following:

```
String a = "Java is programming language \n developed by \t \'James Gosling\'";  
System.out.println(a);
```

- (a) Java is programming language
developed by 'James Gosling'
- (b) Java is programming language developed by 'James Gosling'
- (c) Java is programming language developed by
'James Gosling'
- (d) Java is
programming language

(xvii) Assertion(A): Java Supports Polymorphism concept

Reason(R): A class have multiple methods by same name but different parameters.

- (a) Both Assertion (A) and Reason (R) are true and Reason (R) is a correct explanation of Assertion (A)
- (b) Both Assertion (A) and Reason (R) are true and Reason (R) is not a correct explanation of Assertion (A)
- (c) Assertion (A) is false and Reason (R) is true
- (d) Assertion (A) is true and Reason (R) is false

(xviii) Rewrite the following using ternary operator:

if (x%2 == 0)

System.out.print("EVEN");

else

System.out.print("ODD");

- (a) System.out.print(x%2==0? "Odd":"Even");
- (b) System.out.print(x%2==0? "Even":"Odd");
- (c) System.out.print(x/2==0? "Odd":"Even");
- (d) System.out.print(x%2==0: "Odd" ? "Even");

(xix) Write the return type of the following library function:

isLetterOrDigit(char)

- (a) char
- (b) false
- (c) true
- (d) String

(xx) Consider the following String array and give the output

String arr[] = {"DELHI", "CHENNAI", "MUMBAI", "LUCKNOW", "IAIPUR"};

System.out.print(arr[0].length() > arr[3].length());

System.out.print(arr[4].substring(0,3));

- (a) true|AI
- (b) false|AI
- (c) 7|AI

(d) 5|AI

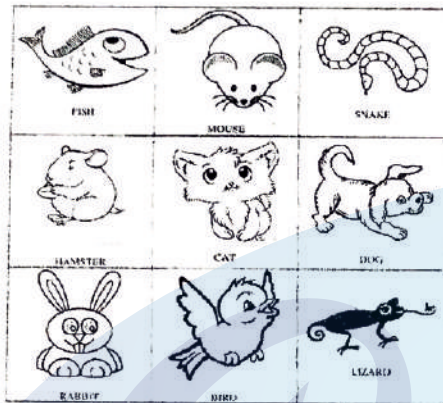
QUESTION PAPER 2

Subject: COMPUTER APPLICATIONS

Question 1

Choose the Correct Answer and write the correct option:

[20]



- (i) In the above picture of a board game, the pictures of animals are stored in a double dimensional array. What is the position of bird?
- (a) [2] [1] (b) [3] [2] (c) [1] [2] (d) [2] [2]
- (ii) In the statement given, identify the wrapper class: `long m = Long.parseLong("350");`
- (a) m (b) long (c) parse (d) Long
- (iii) Mr Rao is a doctor by profession. He is a father of two children and a national football player. Name the feature of Java depicted used in his context.
- (a) Encapsulation (b) Inheritance (c) Polymorphism (d) Abstraction
- (iv) How many bytes are occupied by the given single dimensional array?
- | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| '8' | 'b' | '6' | 'd' | 'f' | '4' | '2' |
|-----|-----|-----|-----|-----|-----|-----|
- (a) 12 bytes (b) 14 bytes (c) 28 bytes (d) 48 bytes
- (v) Which among the following is a class?
- (a) util (b) public (c) System (d) lang

(vi) Which of the following is the CORRECT Java statement to add two numbers, which causes the control back to the function call?

- (a) `System.out.println(5 + 3);`
- (b) `return(5 + 3);`
- (c) `Return(5+3)`
- (d) `System.out.print("5 + 3");`

(vii) Sam is coding a dice game in Java. He wants the results to vary between 1 to 6, on every execution. Which of the following Math method statement he can use?

- (a) `int a = (int)(6.0 * Math.random()) + 1;`
- (b) `double a = (int)(6.0 * Math.random()) + 1;`
- (c) `int a = Math.random(6 * 1) ;`
- (d) `double a = Math.random(6 + 1) ;`

(viii) The type of argument in the method `equalsIgnoreCase()` will be _____.

- (a) String
- (b) int
- (c) char
- (d) boolean

(ix) Which of the following is not true with regards to Keywords?

- (a) They are also known as reserved words
- (b) They convey a special meaning to the compiler
- (c) `main` is a keyword
- (d) They cannot be used as identifier names

(x) Arrange the following Java statements in the correct order of execution to convert and print int type variable `d` to char type:

- (i) `System.out.println(ch);`
- (ii) `char ch;`
- (iii) `int d = 97;`
- (iv) `ch = (char) d;`

- (a) (i), (ii), (iii), (iv)
- (b) (ii), (iii), (iv), (i)
- (c) (iv), (iii), (ii), (i)
- (d) (iii), (ii), (iv), (i)

(xi) Avni wants to calculate her average marks of six subjects which is stored in variable `total_marks`. However, she has written the following code which is giving an error. Identify the type of error she will get:

```
double avg = total_marks * 6;
```

- (a) Logical error
- (b) Runtime error
- (c) Syntax error

(xii) Assertion: The Binary search method can be used on sorted and unsorted array, otherwise the Binary search fails.

Reason: In the Binary search method, the desired element is searched sequentially from the array.

- (a) Assertion is true, Reason is false
- (b) Assertion is true, Reason is true
- (c) Assertion is false, Reason is false
- (d) Assertion is false, Reason is true

(xiii) Given that: `int n [] [] = { { 2, 6, 5 }, { 8, 3, 9 } }`; what will be the value of the following statement:

```
System.out.print(Math.sqrt(n[1][2]) + n[0][2]);
```

$\sqrt{265}$
 $\sqrt{231}$

- (a) 3.0 (b) 8.0 (c) 9.0 (d) 5.0

(xiv) What will be the correct order of precedence of the following operators from lower to higher?

- (i) && (ii) * (iii) == (iv) ()

- (a) (iii) (i) (ii) (iv) (b) (ii) (iii) (iv) (i) (c) (i) (iii) (ii) (iv) (d) (iv) (ii) (iii) (i)

(xv) Assertion: The program that translates the source code to machine language line by line is known as Interpreter.

Reason: JVM is a Java Interpreter loaded in the computer memory as soon as Java is loaded.

- (a) Assertion is true, Reason is false
 (b) Assertion is true, Reason is true
 (c) Assertion is false, Reason is false
 (d) Assertion is false, Reason is true

(xvi) The result of the following will be: `System.out.println("Amusement".substring(0,5));`

- (a) Amusem (b) Amuse (c) ment (d) ement

(xvii) The process to convert wrapper class object Double b into its corresponding primitive data type is called _____.

- (a) Type casting (b) autoboxing (c) conversion (d) unboxing

(xviii) The output of the following statement will be: `System.out.print("Winner".compareTo("Winter"));`

- (a) 0 (b) -6 (c) -5 (d) 6

(xix) The Little Wonders toy shop is offering a discount of Rs 50/- to its customers on the total bill on the occasion of Children's Day. Which will be the correct statement to convert the discount value into constant so that it can be added to the bill of all the customers?

- (a) `final discount int =50;` (b) `final int discount = 50;`
 (c) `constant discount = 50;` (d) `final constant discount = 50;`

(xx) What will be the output of the following code:

```
int a = 3;
while(++a < 9)
{
    System.out.print(a);
}
```

- (a) 456789 (b) 345678 (c) ~~456789~~ (d) 3456789

Question 1

Choose the correct answers to the questions from the given options. (Do not copy the questions, write the correct answers only.)

[20]

(i) When primitive data type is converted to a corresponding object of its class, it is called:

- (a) Boxing
- (b) Unboxing
- (c) explicit type conversion
- (d) implicit type conversion

(ii) _____ operator is used to access member of a package or a class.

- (a) dot (.)
- (b) new
- (c) import
- (d) colon

(iii) Given array `int x[]={11, 22, 33, 44}`; the value of `x[1/2]` is

- (a) 44
- (b) 22
- (c) 11
- (d) 33

(iv) `Math.pow()` method always returns a data type

- (a) int
- (b) long
- (c) double
- (d) boolean

(v) The output of the following code will be:

```
char ch='y';  
char chr=Character.toUpperCase(ch);  
int p=(int) chr;  
System.out.println(p);
```

- (a) Y
- (b) y
- (c) 89
- (d) Error

(vi) What will be the final value of x, if the initial value of `x = 5, y=13, z=9, k=122`
`x+=k++ + ++y % ++z + ++k;`

- (a) 270
- (b) 220
- (c) 250
- (d) 255

(vii) How many times the following do-while loop will be executed?

```
int a, i;
i=0;
a=1;
do {
i++;
a++;
} while (a <= 5);
System.out.println ("i="+i, a="+a);
```

- (a) 2 times
- (b) 6 times
- (c) 4 times
- (d) 5 times

(viii) **Assertion (A):** Constructor is a special function which gets invoked automatically.
Reason (R): Constructor is invoked when the object of the class is created.

- (a) Both A and R are true and R is the correct explanation of A
- (b) Both A and R are true and R is not the correct explanation of A
- (c) A is true and R is false.
- (d) A is false and R is true.

(ix) **Assertion (A):** Java supports the use of the ASCII character set only.
Reason (R): Unicode can represent nearly all languages of the world like English, Hindi, Bengali, Kannada, Arabic, Japanese, etc.

- (a) Both Assertion (A) and Reason (R) are true and Reason (R) is a correct explanation of Assertion (A).
- (b) Both Assertion (A) and Reason (R) are true but Reason (R) is not a correct explanation of Assertion (A).
- (c) Assertion (A) is true and Reason (R) is false.
- (d) Assertion (A) is false and Reason (R) is true.

(x) Name the type of error in the statement given below: double x;y;z.

- (a) Logical error
- (b) Syntax error
- (c) Runtime error
- (d) No error

(xi) Which of these is an incorrect array declaration?

- (a) int arr[] = new int [5]
- (b) int [] arr = new int [5]
- (c) int arr [] = new int [5]
- (d) int arr[] = int [5] new

(xii) Explicit data values that appear in your program are called _____

- (a) Literals
- (b) Operators
- (c) identifiers
- (d) Keywords

(xiii) Assertion (A): Primitive data types are independent data types and has a fixed memory.
Reason (R): Non-primitive types may have dynamic memory allocation.

- (a) Both Assertion (A) and Reason (R) are true and Reason (R) is a correct explanation of Assertion (A)
- (b) Both Assertion (A) and Reason (R) are true and Reason (R) is not a correct explanation of Assertion(A)
- (c) Assertion (A) is true and Reason (R) is false
- (d) Assertion (A) is false and Reason (R) is true

(xiv) Which of the following data type is a 16 bit unsigned integer that represents a Unicode value?

- (a) int
- (b) string
- (c) char
- (d) float

(xv) Which of the following is not a character literal?

- (a) '\n'
- (b) "n"
- (c) 'n'
- (d) Both (a) and (c)

(xiv) Arrange the following according to the precedence of operator.

(i) + (ii) () (iii) != (iv) ++ (v) &

- (a) i, ii, iii, iv, v
- (b) ii, iv, i, v, iii
- (c) iv, i, i, iii, v
- (d) iv, ii, i, v, iii

(xvii) Which of the following is not a legal identifier?

- (a) room
- (b) SPayAmount
- (c) 10thClass
- (d) nullValue

(xviii) The output of `Math.round(6.6) + Math.ceil(3.4)` is

- (a) 9.0
- (b) 10.0
- (c) 11
- (d) 11.0

(xix) Which of the following segment can be omitted in a for loop?

- (a) initialization
- (b) test condition
- (c) update expression
- (d) All of these

(Xx) Java statement to access the 5th element of an array is:

- (a) x[4]
- (b) x[5]
- (c) x[6]
- (d) x[0]

Pati's

QUESTION PAPER 4

Subject: COMPUTER APPLICATIONS

Prelim - I

Section A

(Attempt all the questions from this section.)

Q.1 Choose the correct answer and write the correct option: [20]

Q.1 Parameters which receive the values from the called method are termed as _____ parameters.

- (a) actual
- (b) formal
- (c) reference
- (d) class

Q.2 Which of the following is a valid method prototype?

- (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)

Q.3 Which of the following is the CORRECT statement to invoke the method with the prototype
int display(int a, char ch)?

- (a) int m = display("A", 45);
- (b) int m = display();
- (c) int m = display(A,45);
- (d) int m = display(45, "A");

Q.4 Which of the following is the CORRECT java statement to convert the word RESPECT to lowercase?

- (a) "RESPECT".toLowerCase();
- (b) "RESPECT".toLowerCase();
- (c) toLowerCase("RESPECT");
- (d) String. toLowerCase("RESPECT");

Q.5 Which of the following are Wrapper classes?

- (i) Boolean ii)boolean iii)character iv)Character
- (a) (i) and (iv)
- (b) (ii) and (iv)
- (c) (i) and (iii)
- (d) (ii) and (iii)

Q.6 Conversion of a wrapper class to its corresponding primitive type is known as :

- (a) unboxing
- (b) autoboxing
- (c) type casting
- (d) parsing

Q.7 In the bubble sort technique, during each iteration of the inner loop, two adjacent elements are ___ and ___.

- (i) compared ii) swapped iii) selected iv) deleted
- (a) (i) and (ii)
- (b) (ii) and (iii)
- (c) (iii) and (iv)
- (d) (ii) and (iv)

Q.8 What is the highest index of any array with 100 elements?

- (a) 100
- (b) 101
- (c) 99
- (d) 98

Q.9 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.

- (a) Complexity
- (b) Modularity
- (c) Reusability
- (d) Monolithic

Q.10 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?

- (a) Ob. nextInt()
- (b) Ob. nextDouble()
- (c) Ob. nextLong()
- (d) Ob. next().charAt(0)

Q.11 Sham was asked to encode a string S, by replacing the letter E with #. Select the appropriate statement:

- (a) S.replace("#", 'E')
- (b) S.replace('E')
- (c) S.replace("E", "#")
- (d) S.replace("#")

Q.12 When the String m is compared to n, the result obtained is greater than zero. Which of the following is true?

- (a) m comes before n in the dictionary.
- (b) n comes before m in the dictionary.
- (c) m and n are equal.
- (d) m and n have the same length.

Q.13 Which of the following String methods has integer argument?

- (i) length ii) substring iii) indexOf iv) charAt
- (a) Only (ii)
- (b) (i) and (iv)
- (c) (ii) and (iv)
- (d) (iii) and (iii)

Q.14 **Assertion:** Property by virtue of which one class acquires the properties of another class is termed as Inheritance.

Reason: Inheritance promotes reusability.

- (a) Assertion is true, Reason is false.
- (b) Assertion is true, Reason is true.
- (c) Assertion is false, Reason is false.
- (d) Assertion is false, Reason is true.

Q.15 Which data structure is represented in the above picture?

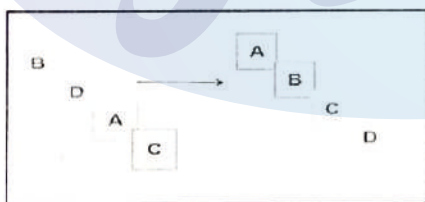


- (i) A two-dimensional array with 2 rows and seven columns.
- (ii) A one-dimensional array with 14 elements.

- (a) Both (i) and (ii)
- (b) Only (i)
- (c) Only (ii)
- (d) None of the (i) and (ii)

Q.16 What is the process done in the above picture?

- (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.



Q. 17) The sum of $a[1]$ and $a[3]$ in the array $\text{int } a[] = \{20, 40, 60, 80, 100\}$ is:

- (a) 80
- (b) 100
- (c) 120
- (d) 60

Q.18 The output of the statement of `"TIGER".indexOf('G')` is:

- (a) 3
- (b) 2
- (c) -1
- (d) 0

Q. 19 The two Java statements are used to check for the equality of the strings "COP" and "cop" are as follows:

"COP".equals("cop")

"COP".equalsIgnoreCase("cop") The output of the above statements is:

- (a) false, true
- (b) true, false
- (c) false, false
- (d) true, true

Q.20 The output of the java statement "SOLDIER".compareTo("SOLUTE"); is

- (a) -4
- (b) -17
- (c) 17
- (d) 0



QUESTION PAPER 5

II - Preparatory Examination

COMPUTER APPLICATIONS

SECTION A

Attempt all questions

Question 1

[20]

Choose the correct answers from the given options.

(Write the correct answer with the option number)

(i). Name the feature of java depicted in the picture given below :



(a) Abstraction

(c) Encapsulation

(b) Polymorphism

(d) Inheritance

(ii) The JVM stands for

(a) Java Visual Machine

(c) Java Vital Machine

(b) Java Void Machine

(d) Java Virtual Machine

(iii) the size of "Siya\s" is : "Siya\s"

(a) 12bytes

(c) 10bytes

(b) 14bytes

(d) 8bytes

(iv) 10/9 gives output :

(a) 1.0

(c) 1

(b) 1.1111

(d) Error

(v) which one is not a part of switch construct ?

- (a) switch (c) Break
(b) case (d) default

(vi) The output of the following code is :

```
System.out.println(Math.pow(25,1/2)+Math.sqrt(25));
```

- (a) 5.0 (c) 6.0
(b) 10.0 (d) Error

(vii) The statement , System.out.println("Reindeer".substring(4,8)); Gives :

- (a) Error (c) dee
(b) deer (d) ndeer

(viii) Which is not true statement about array ?

- (a) Duplicate elements are allowed in array.
(b) Array starts with 0 index number.
(c) Array size is increased automatically when it is full.
(d) Array elements are accessed using index numbers.

(ix) Give output of System.out.println(2+"B");

- (a) 2"B" (c) 67
(b) 68 (d) 2B

(x) Which one is finite loop ?

- (a) for(int i=1;i++<=5;) (c) for(int i=1;++i>=2;i++)
(b) for(int i=1; ; i++) (d) for(int i=0;i<=10;i*=2)

(xi) The return data type of the method toUpperCase(char)

- (a) Character (c) char
(b) String (d) boolean

(xii) Consider an array N with 9 elements.

The statement `N[9]=0;` makes ____ element as 0:

- (a) 10th (c) 9th
(b) 8th (d) Error

(xiii) Consider the code given below and state the output ?

```
int a=5,b=10;  
if(a>b) NO  
    break;  
else  
    System.out.println(b);
```

- (a) No output (c) (empty)
(b) 10 (d) Error

(xiv) The wrapper class for boolean data type is :

- (a) boolean (c) Boolean
(b) BOOLEAN (d) None

(xv) A method to check for a space :

- (a) ~~Character.whitesSpace(char)~~ (c) Character.isWhiteSpace(char)
(b) ~~Character.isSpace(char)~~ (d) Character.isWhitespace(char)

(xvi) A package that contains String class ?

- (a) java.Scanner (c) java.io
(b) java.util (d) ~~Java.lang~~

(xvii) Consider `String st[]={“INDEX”,“2025”,“24”};`

`System.out.println(st[1].length());` gives the output:

- (a) 4 (c) 3
(b) 5 (d) Error

INDEX
2025
24

(xviii) Assertion(A) : The data type that are based on fundamental or primitive data are known as composite data types. Composite data types are also called user defined data types

Reason (R) : These data types are created by users.

- (a) Both Assertion(A) and Reason (R) are true and Reason (R) is not correct explanation of Assertion (A)
- (b) Both Assertion(A) and Reason (R) are true and Reason (R) is correct explanation of Assertion (A)
- (c) Assertion (A) is false and Reason (R) is true
- (d) Assertion (A) is true and Reason (R) is false

(xix) A student wants to calculate kinetic energy and writes the formula as given below, which is incorrect :

`double m=55.0,v=2.5;`

`double KE= 1/2 *m*v*v;`

What will be the correct statement ?

- (A) `double KE= (double)(1/2) *m*v*v;`
- (B) `double KE= (1/2) *m*v*v;`
- (C) `double KE= (double)1/2 *m*v*v;`
- (a) only A
- (b) Both A and C
- (c) only C
- (d) only B

(xx) Assertion(A) A method with the same name as class name is called constructor. Constructors have no return type. Constructors are used to initialize the objects and are called when object of that class is created.

Reason (R) : Constructor must be provided for a class.

- (a) Both Assertion(A) and Reason (R) are true and Reason (R) is not correct explanation of Assertion (A)
- (b) Both Assertion(A) and Reason (R) are true and Reason (R) is correct explanation of Assertion (A)
- a. 2Assertion (A) is false and Reason (R) is true
- (c) Assertion (A) is true and Reason (R) is false

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double KE= 1/2 *m*v*v;

What will be the correct statement ?

(A) double KE= (double)(1/2) *m*v*v;

(B) double KE= (1/2) *m*v*v; ✓

(C) double KE= (double)1/2 *m*v*v;

- (a) only A
- (b) Both A and C
- (c) only C
- (d) only B

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Constructors have no return type. Constructors are used to initialize the objects and are called when object of that class is created.

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- (b) Both Assertion(A) and Reason (R) are true and Reason (R) is correct explanation of Assertion (A)
- a. Assertion (A) is false and Reason (R) is true
- (c) Assertion (A) is true and Reason (R) is false

Section A (40 Marks)
(Attempt all questions from this section.)

[20]

Question 1

Choose the correct answers to the questions from the given options. (Do not copy the question, write the correct answer only.)

(i)



Name the feature of java depicted in the above picture.

- (a) Inheritance
- (b) Encapsulation
- (c) Abstraction
- (d) Polymorphism

(ii) "Java allows elimination of error prone situations by emphasizing mainly on compile time error checking and runtime checking"- Name the java feature.

- (a) Robust
- (b) Portable
- (c) Interpreted
- (d) Multithreaded

(iii)

12.5	150	2.12	1
11	10.2	19	75
9.5	44	98.1	78

How many bytes are occupied by the above two-dimensional array?

- (a) 24
- (b) 48
- (c) 96
- (d) 128

(iv) Operators with higher precedence are evaluated before operators with relatively lower precedence. Arrange the operators given below in order of higher precedence to lower precedence.

<, --, +, /

- (a) <, --, +, /
- (b) --, /, +, <
- (c) +, /, <, --
- (d) /, <, --, +

(v) Which of the following is a valid java statement to print the following sentence:
Teacher said "All the best"

- (a) System.out.println("Teacher said "All the best");
- (b) System.out.println("Teacher said \\All the best\\);
- (c) System.out.println("Teacher said \"All the best\");
- (d) System.out.println("Teacher said All the best");

- (vi) The output of the code, `Math.ceil (Math.max (3.5,2.3))` is :
- (a) 2.0
 - (b) 3.0
 - (c) 4.0
 - (d) 4
- (vii) The two java statements used to display index of the letter 'G' and 'g' are as follows:
`"TIGER".indexOf('G')`
`"TIGER".indexOf('g')`
- (a) 3, -1
 - (b) 2, -1
 - (c) 2, 1
 - (d) 3, 1
- (viii) Choose the statement which is equivalent to the given if statement:
 if (`a>b`)
 `System.out.println("Honest");`
 else
 `System.out.println("Sincere");`
- (a) `System.out.println(a>b ? "Honest" : "Sincere");`
 - (b) `a>b ? System.out.println("Honest") : System.out.println("Sincere");`
 - (c) `a>b ? "Honest" : "Sincere";`
 - (d) `a>b : "Honest" ? "Sincere";`
- (ix) Sam performs bubble sort on the following array to organize the elements in ascending order:
`{5, 1, 2, 3}`
 After the first comparison the array is:
`{1, 5, 2, 3}`
 What would be the array after the next comparison?
- (a) `{1, 2, 5, 3}`
 - (b) `{1, 5, 3, 2}`
 - (c) `{1, 3, 5, 2}`
 - (d) `{1, 3, 2, 5}`
- (x) To execute a loop 10 times, which of the following is correct?
- (a) `for (int i=10; i<30 ; i+=3)`
 - (b) `for (int i=10; i<=30 ; i+=3)`
 - (c) `for (int i=10; i<21 ; i++)`
 - (d) `for (int i=10; i<30 ; i+=2)`
- (xi) Arrange the following in the descending order of number of bytes occupied.
- A. `char x[20]`
 - B. `int a[4][2]`
 - C. `double b[6]`
- (a) A, B, C
 - (b) B, C, A
 - (c) C, A, B
 - (d) C, B, A
- (xii) Which is the correct statement to invoke the method with the following prototype?
`int display (int a, char ch)`
- (a) `int m = display ('A', 45);`
 - (b) `int m = display ();`
 - (c) `int m = display (45, 'A');`
 - (d) `display (45, 'A');`

- (xiii) The statement that brings the control back to the calling method is:
- break
 - System.exit(0)
 - continue
 - return
- (xiv) The String method, which results only in a positive integer, is:
- indexOf()
 - lastIndexOf()
 - length()
 - compareTo()
- (xv) The method to convert a String to double is:
- Double.valueOf(String)
 - Double.parseDouble(String)
 - Double.parseDouble()
 - Both (a) and (b)
- (xvi) Assertion(A): The members of a class declared without any access specifier are accessible in all classes of the package.
Reason(R): The members without any access specifier are default or package members, hence they are accessible in all classes of the package.
- Both Assertion(A) and Reason(R) are true, and Reason(R) is the correct explanation for Assertion(A).
 - Both Assertion(A) and Reason(R) are true, but Reason(R) is not the correct explanation for Assertion(A).
 - Assertion(A) is true and Reason(R) is false.
 - Assertion(A) is false and Reason(R) is true.
- (xvii) Double pi=3.14;
Here, pi is a/an:
- Variable
 - Primitive datatype
 - Wrapper class
 - Object
- (xviii) The method compareTo() returns _____ when two strings are equal and in lowercase.
- true
 - 1
 - 0
 - false
- (xix) Arrange the following java statements in the correct order of execution to separate and print digits of a number 'n'.
- int d= n % 10;
 - while (n!=0)
 - n=n/10;
 - System.out.println(d);
- A, B, C, D
 - B, A, D, C
 - C, D, B, A
 - B, C, D, A

- (xx) Assertion(A): An array's size can dynamically change.
Reason(R): The size of the array has to be specified at the beginning while declaring it.
- (a) Both Assertion(A) and Reason(R) are true, and Reason(R) is the correct explanation for Assertion(A).
 - (b) Both Assertion(A) and Reason(R) are true, but Reason(R) is not the correct explanation for Assertion(A).
 - (c) Assertion(A) is true and Reason(R) is false.
 - (d) Assertion(A) is false and Reason(R) is true.

Pati's

Section A

(Attempt all questions)

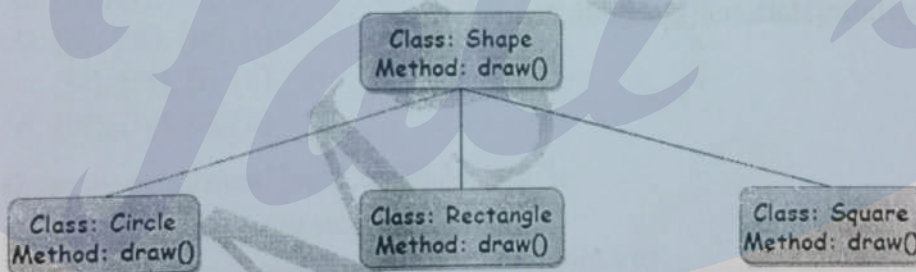
Question 1.

[20]

Choose the correct answers to the questions from the given options.

(Do not copy the question, write the correct answers only.)

- 1) The keyword used to add the current class to an existing package is
 - a. new
 - b. package
 - c. import
 - d. static
- 2) Name the programming mechanism implemented by the method draw().



- a. Abstraction
 - b. Encapsulation
 - c. Inheritance
 - d. Polymorphism
- 3) Riya has to do a large History project which she breaks into smaller parts, each covering a specific sub-topic. What is the feature being used by her in this case?
 - a. Complexity
 - b. Modularity
 - c. Scalability
 - d. Reusability
 - 4) Which method of the Java library classes converts a String to double?
 - a. Double.parseString()
 - b. Double.toString()
 - c. Double.valueOf()
 - d. Double.parseDouble()

5) What will be the output of
`System.out.print ("Listen".compareToIgnoreCase("Glisten"));`
a. 1
b. 5
c. G
d. 6

6) Assertion (A): Unboxing automatically converts a wrapper class object to its corresponding primitive type.

Reason (R): Wrapper classes are used to convert primitive data types into objects.

- a. Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A)
- b. Both Assertion (A) and Reason (R) are true and Reason (R) is not the correct explanation of Assertion (A)
- c. Assertion (A) is true and Reason (R) is false
- d. Assertion (A) is false and Reason (R) is true

7) Meera wants to declare a variable to store a value which should not be changed once assigned. Which keyword should she use to declare that variable?

- a. static
- b. constant
- c. final
- d. abstract

8) Predict the output of the following code :

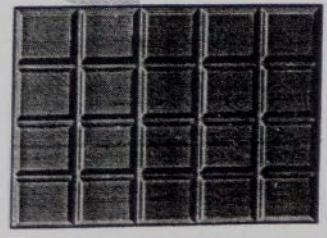
```
double x= -23.45, y=18.9;  
System.out.println(Math.ceil(x) + Math.floor(y));
```

- a. -5
- b. 6
- c. -6.0
- d. -5.0

9) The objects in Java are _____ to a method.

- a. passed by value
- b. passed by reference
- c. passed by name
- d. never passed

10) Identify the Data structure depicted by the picture below.



- a. A single dimensional array of 20 elements
- b. A two dimensional array of 5 rows and 4 columns
- c. A two dimensional array of 4 rows and 5 columns
- d. Does not represent an array.

- 11) The method which always results in an integer is.
1. str.length()
 2. Math.round()
 3. str1.compareTo(str2)
 4. str.charAt(3)
- a. Only 1
 - b. 1 and 2
 - c. 1, 2 and 3
 - d. All 4

12) The number of bits occupied by the array shown below :

24	65	241	78	39	80	16	3	637	34
----	----	-----	----	----	----	----	---	-----	----

- a. 40
 - b. 80
 - c. 160
 - d. 320
- 13) Arrange the following code in the correct order of execution to print the product of numbers from 1 to n.
- (i) prod *= i;
 - (ii) System.out.println("Product = "+ prod);
 - (iii) long prod = 1;
 - (iv) for (int i=1; i <= n ; i++)
- a. (iii), (i), (iv), (ii)
 - b. (ii), (iii), (iv), (i)
 - c. (iv), (iii), (i), (ii)
 - d. (iii), (iv), (i), (ii)

14) Given an array num[]={82,65,76,24,99,37};
 what will the following statement print?
 System.out.println (num[4]-2);

- a. 76
- b. 97
- c. 65
- d. 22

15) What is the extension of a java source code file?

- a. .class
- b. .javac
- c. .java
- d. .obj

16) Which of the following statements is true regarding sorting techniques?

- a. The array is sorted from the beginning in Bubble sort.
- b. The number of swaps is more in Selection sort than in Bubble sort.
- c. The array is sorted from the beginning in Selection sort.
- d. Selection sort is a slower mechanism than Bubble sort.

17) Identify the correct code for nested loops in a Selection Sort program.

- a. `for (int i = 0; i < x-1; i++)
for (int j = 0; j < x; j++)`
- b. `for (int i = 0; i < x-1; i++)
for (int j = i+1; j < x-1; j++)`
- c. `for (int i = 0; i < x-1; i++)
for (int j = i+1; j < x; j++)`
- d. `for (int i = 0; i < x; i++)
for (int j = i+1; j < x-1; j++)`

18) Read the following text, and choose the correct answer :

In Java, a switch statement is used to choose one out of many options based on the value of a single variable. It matches the value with the case labels and executes the block of code associated with the matching case. Each case ends with a break statement to stop the program from running extra cases that are below the matching case. If none of the cases match, the default option is used to handle situations where no match is found. Switch is used as an alternative to a series of if-else statements when there are multiple potential values for a single variable.

Which of the following statements is not true?

- a. The switch statement is used to check the value of a variable and choose a matching case.
- b. The default case is not mandatory in every switch statement.
- c. Switch can replace a series of if-else statements using multiple variables.
- d. The break statement is used to stop the program from continuing with other cases.

19) Name the type of error if any, in the following statement.

```
Scanner sc = new Scanner (System.in);  
System.out.print ("Enter the marks : ");  
double m = sc.nextdouble( );
```

- a. Compile-time error
- b. Run-time error
- c. Logical error
- d. No error

20) Assertion (A): The private access specifier in Java allows members to be accessed only within the same class.

Reason (R): The protected access specifier in Java allows members to be accessed only by subclasses in the same package.

- a. Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A)
- b. Both Assertion (A) and Reason (R) are true and Reason (R) is not the correct explanation of Assertion (A)
- c. Assertion (A) is true and Reason (R) is false
- d. Assertion (A) is false and Reason (R) is true

PRELIMINARY EXAMINATION

COMPUTER APPLICATION

SECTION A (40 Marks)

(Attempt all questions from this Section)

Question 1

[20]

Choose the correct answers to the questions from the given options.

(Do not copy the question, write the correct answers only.)

- (i) A mechanism where one class acquires the properties of another class:
- (a) Encapsulation
 - (b) Polymorphism
 - (c) Inheritance
 - (d) Abstraction
- (ii) Which of the following represents a character literal?
- (a) "p" (b) '??' (c) '\c' (d) "9"

This paper consists of 8 printed pages.

(iii) _____ variables are created once for entire class and are shared by all the objects.

- (a) Static or class variables
- (b) Instance variables
- (c) Shared variables
- (d) Mixed variables

(iv) Consider the following code:

```
int number[] = new int[5];
```

After execution of this statement, which of the following are True?

- (a) number[0] is undefined
- (b) number[5] is undefined
- (c) number[2] is 0
- (d) number.length is 5

(v) The number of values that a method can return is

- (a) one
- (b) two
- (c) three
- (d) none

(vi) The absence of which statement leads to fall through situation in switch case statement?

- (a) return
- (b) break
- (c) continue
- (d) default

(vii) When an object of a Wrapper class is converted to its corresponding primitive data type, it is called as _____.

- (a) Boxing
- (b) Explicit type conversion
- (c) Unboxing
- (d) Implicit type conversion

- (viii) A method which does not modify the value of variables is termed as:
- (a) Pure method
 - (b) Impure method
 - (c) Primitive method
 - (d) User defined method
- (ix) The number of bytes occupied by the value 'u' is
- (a) 4 bytes
 - (b) 2 bytes
 - (c) 3 bytes
 - (d) 8 bytes
- (x) Java ternary operator is also called _____
- (a) relational operator
 - (b) conditional operator
 - (c) logical operator
 - (d) bitwise operator
- (xi) Which of these is control statement in Java?
- (a) if()
 - (b) break
 - (c) continue
 - (d) for()
- (xii) When an expression consists of int, long, float, double, then the entire expression will get promoted to a data type that is:
- (a) int
 - (b) long
 - (c) float
 - (d) double
- (xiii) Implicit type conversion is also known as :
- (a) narrowing type conversion
 - (b) coercion
 - (c) explicit type conversion
 - (d) typecasting

(xiv) Which among the given methods is used to pick a single character from a string object

- (a) compareTo()
- (b) indexOf()
- (c) charAt()
- (d) substring()

(xv) Assertion : In Java, the new keyword is used to create an object of a class.

Reasoning : Objects are instances of classes, and the new keyword is used to allocate memory and initialize objects.

- (a) Both Assertion (A) and Reason (R) are true and Reason (R) is correct explanation of Assertion (A)
- (b) Both Assertion (A) and Reason (R) are true and Reason (R) is not a correct explanation of Assertion (A)
- (c) Assertion (A) is true and Reason (R) is false
- (d) Assertion (A) is false and Reason (R) is true

(xvi) Given this code snippet:

```
double a= 12.9;  
double b=method(a);  
System.out.println(b);
```

If the above snippet displays 13.0 as output, which of the following Math method(s) is correct.

- (a) ceil() and round()
- (b) floor() and round()
- (c) floor()
- (d) round()

(xvii) In Java, to retrieve an individual array element, array name along with its subscript should be specified.

- (a) true
- (b) false

(xviii) The code given below, on execution displays:

```
String x= "Computer";
```

```
String y= "Application";  
System.out.println(y+x.substring(5));
```

- (a) Applicationter
- (b) ApplicationCompu
- (c) Applicationuter
- (d) Application uter

(xix) Given an array 12,3,8,5. What will be array like after two passes of selection sort.

- (a) 12,3,8,5
- (b) 3,8,12,5
- (c) 3,5,8,12
- (d) 12,3,5,8

(xx) Give the output of the following code:

```
String A ="45.0",B="65.0";  
double C=Double.parseDouble(A);  
double D=Double.parseDouble(B);  
System.out.println((C+D));
```

- (a) 45
- (b) 65
- (c) 110.0
- (d) 4565

COMPUTER APPLICATIONS

Class: X

Section A

(Attempt **all** questions from this **Section**.)

Question 1

[20]

Choose the correct answers to the questions from the given options.
(Do not copy the question, write the correct answer only.)

- (i) The method to replace a string with another string:
- .replace(char,char)
 - .replace(char,String)
 - .replace(String,char)
 - .replace(String,String)
- (ii) The default constructor is used for:
- Calling default methods
 - Intializing default values to objects
 - Deferencing default objects
 - All of above
- (iii) A constructor:
- Is always public
 - Never returns a value
 - Never has the same name as the class name
 - Both a & b
- (iv) Give the output of the following code:
- ```
int x=Integer.parseInt("670") + Integer.parseInt ("70");
System.out.println(x) ;
```
- 740
  - 740.9
  - 740.0
  - None of these

- (v) The output of the following statement is:  
`System.out.println(Character.isLetter('a')&&Character.isUpperCase('t'));`  
a. true  
b. false  
c. A  
d. None of these
- (vi) The procedure oriented programming, the stress is given on:  
a. Data  
b. Function  
c. Object  
d. Class
- (vii) Given a string `str= "CompuTerScieNceandENGINEERING"`;  
The output of `str.substring(5,12)` will return \_\_\_\_\_ characters  
a. 6  
b. 7  
c. 8  
d. 9
- (viii) If `str="ZEBracrossing"`,  
The statement `System.out.println(str.substring(2,2).toLowerCase());` displays:  
a. b  
b. B  
c. e  
d. No output
- (ix) The output of the following code is:  
`String a= "45", b= "55";`  
`String c = a+b +"10"`  
`int m=Integer.parseInt(a)`  
`int n= Integer.parseInt(b)`  
`System.out.println(m+n+Integer.parseInt(c)+"")`  
a. 110  
b. 455510100  
c. 455610  
d. None of these
- (x) Given a string `str= "SoftwareandHardware"`  
The return type of `str.length() + str.indexOf('w')` will be :  
a. float  
b. double  
c. int  
d. String

- (xi) The output of the following code is:

```
public class numbers
{
 public static void main(String[] args)
 {
 int arr[] = {5, 10, 15, 20, 25};
 int s = 0;
 for(int i = 0; i < arr.length; i++)
 {
 arr[i] = arr[i] - 1;
 s = s + arr[i];
 }
 System.out.println(s);
 }
}
```

- a. 70
- b. 69
- c. 50
- d. 80

- (xii) Given a string `str = "Barrackpore"`;  
The statement `str.substring(5).toUpperCase()` returns :

- a. ckpore
- b. Barrac
- c. CKPORE
- d. ackpor

- (xiii) If a string contains 12 characters, what will be the index of the last character?

- a. 12
- b. 11
- c. 10
- d. 0

- (xiv) Which of the following is not an object oriented programming language?

- a. C++
- b. Simula
- c. BASIC
- d. Java

- (xv) Parameters used in the method calling are called:

- a. forward parameter
- b. actual parameter
- c. formal parameter
- d. none

- (xvi) An overloaded function is:
- A function with the same name but different return types.
  - A function with same name but different number of parameters
  - A function with same name but different types of parameters
  - Both (b) and (c)
- (xvii) If `String x = "Computer"; String y = "Applications";`  
What do the following function returns?  
`System.out.println(x.equals(y));`
- true
  - false
  - 9
  - Computer
- (xviii) Output of the following code is:  
`String arr[] = {"DELHI", "CHENNAI", "MUMBAI", "LUCKNOW", "JAIPUR"};`  
`System.out.print(arr[1].length() > arr[4].length());`  
`System.out.print(arr[3].substring(0,3));`
- falseJAI
  - trueJAI
  - falseLUC
  - trueLUC
- (xix) Predict the output:  
`String str1 = "Information Technology";`  
`String str2 = "information technology";`  
`boolean p = str1.equalsIgnoreCase(str2);`  
`System.out.println("The result is "+ p);`
- "Information Technology"
  - "information technology"
  - true
  - false
- (xx) What do you mean by subscripted variable?
- The variable after initialization using a constructor.
  - The variable represented by the subscript of an array.
  - The last element of an array
  - None of these

## QUESTION PAPER 10

ICSE MODEL EXAMINATION -  
COMPUTER APPLICATIONS

## SECTION A

(Attempt *all* questions from this Section.)

[20]

## Question 1

Choose the correct answers to the questions from the given options.  
(Do not copy the questions, write the correct answers only.)

(i)



Name the feature of java depicted in the above picture.

- (a) data abstraction
- (b) inheritance
- (c) encapsulation
- (d) polymorphism

(ii)

A method with the same name as of the class and with arguments and no return data type is termed as:

- (a) parameterized constructor
- (b) default constructor
- (c) non parameterized constructor
- (d) wrapper class method

(iii)

The logical operator which is a unary operator:

- (a) &&
- (b) ||
- (c) >>
- (d) !

(iv)

The Scanner in java is a \_\_\_\_ class:

- (a) primitive
- (b) utility
- (c) Wrapper
- (d) Derived

- (v) `Math.pow(625,0)+Math.sqrt(144)` is:  
(a) 37.0  
(b) 13  
(c) 17  
(d) 13.0
- (vi) The array `char c[]={'a','e','i','o','u'}`; occupies:  
(a) 20 bytes  
(b) 16 bytes  
(c) 2 bytes  
(d) 10 bytes
- (vii) The output of `"Examination's".substring(5,11)` is:  
(a) nations  
(b) ination  
(c) nation  
(d) inations
- (viii) Name the type of error if any occurs for the following statement:  
`System.out.print(Math.sqrt(24-25));`  
(a) no error  
(b) syntax error  
(c) runtime error  
(d) logical error
- (ix) Corresponding wrapper class for float data type is:  
(a) FLOAT  
(b) float  
(c) Float  
(d) Floating
- (x) The blue print that defines the variables and the methods common to all of a certain kind is termed as:  
(a) method  
(b) package  
(c) class  
(d) object
- (xi) The output of the statement `"CONCATENATION".indexOf('A')` is:  
(a) 4  
(b) 5  
(c) 8  
(d) 9
- (xii) `int x=100; char ch=(char)x;`  
What is the value of `ch`?  
(a) D  
(b) a  
(c) A  
(d) d
- (xiii) Which of the following data type cannot be used with switch case construct?  
(a) double  
(b) char  
(c) String  
(d) int

- (xiv) Method which reverses a given number is:  
(a) constructor  
(b) destructor  
(c) pure method  
(d) impure method
- (xv) An array element is accessed using:  
(a) a first-in-first-out-approach  
(b) the dot operator  
(c) an element name  
(d) an index number
- (xvi) Assertion : A class can have multiple constructors  
Reason : Multiple constructors are defined with same set of parameters  
(a) both Assertion and Reason are true  
(b) both Assertion and Reason are false  
(c) Assertion is false and Reason is true  
(d) Assertion is true and Reason is false
- (xvii) A child wanted to calculate the sum of two numbers stored as x and y multiplied By 7. Select the appropriate statement:  
(a)  $x*y+7$   
(b)  $x+(y*7)$   
(c)  $y*x*7$   
(d)  $(x+y)*7$
- (xviii) Which of the following is a valid initialization statement?  
(a) `String x='Good'`  
(b) `int z =(int)(25.5)`  
(c) `int y =25.5/2`  
(d) `boolean a=False`
- (xix) What is the output of the java code given below?  
`String fruits[]{"APPLE","ORANGES","KIWI","BANANA"};`  
`System.out.print(fruits[3].length());`  
(a) 4  
(b) 6  
(c) 5  
(d) 7
- (xx) 

```
for(i=1;i<=2;i++){
for(j=1;j<=4;j++)
System.out.println(j*2);}
```

  
How many times the inner loop will be executed?  
(a) 4 times  
(b) 8 times  
(c) 2 times  
(d) 16 times

## Answers

### QP 1

i b ii c iii d iv d v a vi a vii a viii b ix a x b xi a

xii a xiii b xiv c xv b xvi a xvii a xviii b

xix Incomplete Question xx b

### QP 2

i a ii d iii c iv b v c vi b vii a viii a ix c x b xi a

xii d xiii b xiv d xv d xvi b xvii d xviii b xix b xx c

### QP 3

i a ii a iii c iv c v c vi Incomplete Question vii b

viii a ix d x b xi d xii a xiii b xiv c xv b xvi b

xvii c xviii d xix d xx a

### QP 4

1 b 2 c 3 d 4 b 5 a 6 a 7 a 8 c 9 b 10 c 11 c

12 b 13 c 14 b 15 b 16 c 17 c 18 b 19 a 20 b

### QP 5

i a ii d iii a iv c v c vi c vii b viii c ix d x a xi c

xii d xiii b xiv c xv c xvi d xvii a xviii b xix c xx c

## Answers

### QP 6

i c ii a iii c iv b v c vi c vii b viii a ix a x c xi d xii c xiii d  
xiv c xv b xvi a xvii d xviii c xix b xx Ambiguous Question

### QP 7

1 b 2 c 3 b 4 d 5 b 6 b 7 c 8 d 9 b 10 b 11 c 12 d 13 d  
14 b 15 c 16 a 17 c 18 c 19 a 20 b

### QP 8

i c ii c iii a iv c/d v a vi b vii c viii a ix b x b xi a xii d  
xiii b xiv c xv a xvi a xvii a xviii a xix c xx c

### QP 9

i d ii b iii b iv a v b vi b vii b viii d ix c x c xi a xii c  
xiii b xiv c xv b xvi d xvii b xviii d xix c xx b

### QP 10

i d ii a iii d iv b v d vi d vii c viii a ix c x c xi a  
xii d xiii a xiv d xv d xvi d xvii d xviii b xix b xx b

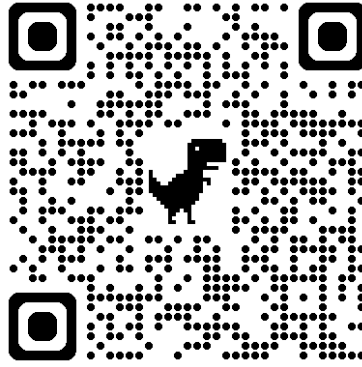


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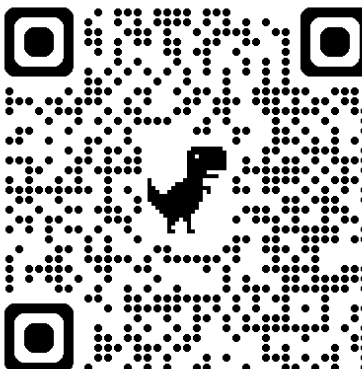
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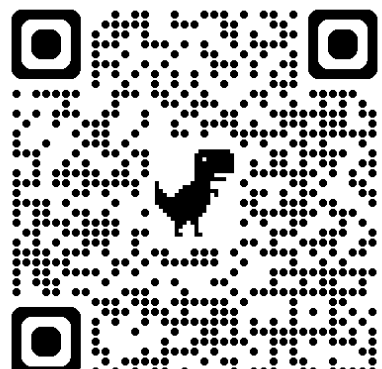
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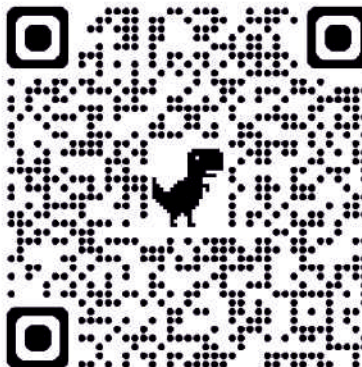
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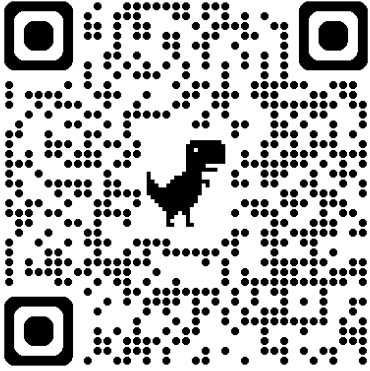
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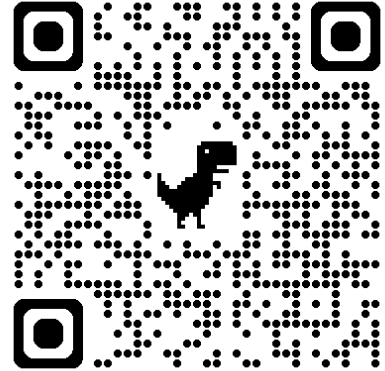
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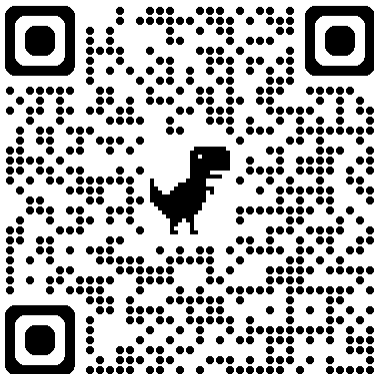
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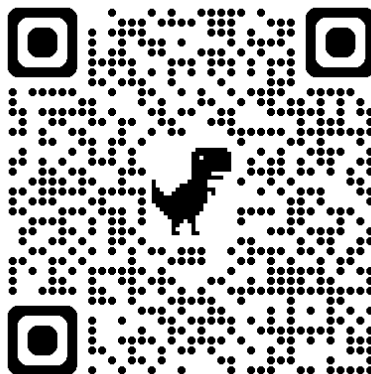
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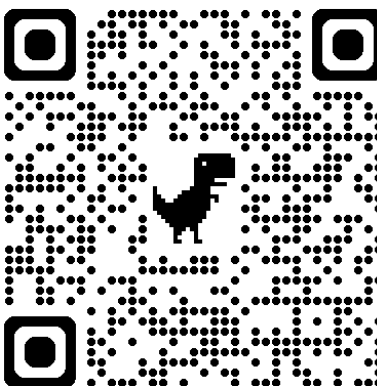
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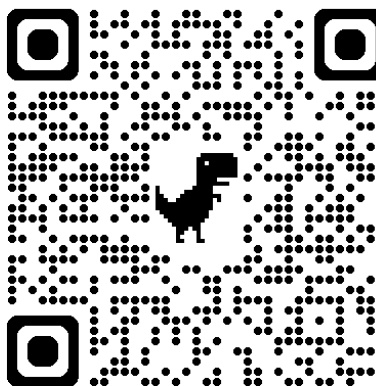
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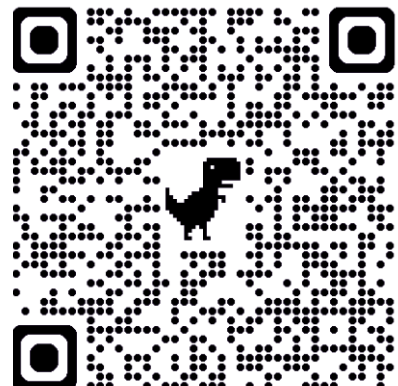
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