

- Q. 14 The _____ in Java is a mechanism to achieve abstraction
a) Polymorphism b) Interface c) Aggregation d) All of Above CO4
- Q. 15 It can be used to achieve loose coupling
a) Polymorphism b) Interface c) Abstraction d) All of Above CO1
- Q. 16 Which one is correct
a) You cannot override a private or static method in Java
b) You can override a private or static method in Java
c) You cannot override a private but override static method in Java
d) All are False
- Q. 17 It is a mechanism where you bind your data and code together as a single unit
a) Polymorphism b) Aggregation c) Abstraction d) Encapsulation CO4
- Q. 18 data is sent in header
a) Get method b) Post method c) Dispatch method d) None of Above CO4
- Q. 19 _____ is followed by class
a) Exception b) Throw c) Throws d) All of Above CO4
- Q. 20 This method returns the message String of Throwable
a) String return Message()
c) String post Message()
b) String throwable Message()
d) String get Message() CO4
- Q. 21 _____ method in Java can be considered as a pure virtual function
a) Static b) Dynamic c) Abstract d) Interface CO4
- Q. 22 This method is invoked whenever an applet needs to be redrawn in the browser
a) Paint() b) Draw() c) Redraw() d) Color() CO5
- Q. 23 Which of these classes are used by Byte streams for input and output operation?
a) InputStream b) ByteStream c) ReaderStream d) IOStream CO5
- Q. 24 Which of these method returns an instance of DateFormat that can format time information?
a) getTime() b) getTimeInstance() c) getTimeDateInstance() d) getDateTimeInstance() CO5
- Q. 25 Which of these methods are used to register a keyboard event listener?
a) KeyboardListener() b) addKeyboardListener() c) addKeyListener() d) eventKeyboardListener() CO5
- Q. 26 Event class is defined in which of these libraries?
a) java.io b) java.lang c) java.net d) java.util CO5
- Q. 27 final
a) class can't be inherited b) method can't be overridden c) Both a and b are false d) Both a and b are true CO6
- Q. 28 Java String class contains() method searches the sequence of
a) Characters b) Sentence c) Variables d) Numerical CO6
- Q. 29 Which class is used for reading data from the keyboard in Java?
a) InputStreamReader b) Scanner c) BufferedReader d) FileWriter CO6
- Q. 30 Which method is used to read a single character from the keyboard using BufferedReader?
a) readLine() b) read() c) readChar() d) next() CO6

CO6

- Q. 31 Which method is used to add an element to a collection in Java?
A) add() B) insert() C) put() D) push() COS
- Q. 32 Which interface extends the Collection interface and represents an ordered sequence of elements in Java?
A) Map B) Set C) List D) Queue COS
- Q. 33 Which of the following interfaces is used to sort objects in Java TreeSet?
a) Comparator b) Comparable c) Both a and b d) None of the above COS
- Q. 34 Which of the following methods is used to remove all elements from a TreeSet?
a) removeAll() b) clear() c) delete() d) None of the above COS
- Q. 35 Which of the following is a checked exception in Java?
a) NullPointerException b) ArrayIndexOutOfBoundsException
c) FileNotFoundException d) IllegalArgumentException COS
- Q. 36 Which of the following is not a type of exception in Java?
a) Checked Exception b) Unchecked Exception c) Runtime Exception d) Logical Exception COS
- Q. 37 Which of the following is not a subclass of the Exception class in Java?
a) RuntimeException b) IOException c) FileNotFoundException d) AssertionError COS
- Q. 38 What are the two types of nested classes in Java?
a) Static and dynamic b) Inner and outer c) Public and private d) Final and abstract COS
- Q. 39 What is the purpose of a nested class in Java?
a) To improve code organization and encapsulation
c) To allow access to private methods and variables b) To improve performance
d) To improve security COS
- Q. 40 Which component is used to display text in Java Swing?
a) JTextField b) JTextArea c) JList d) JComboBox COS
- Q. 41 Which method is used to set the layout manager for a container in Java Swing?
a) addLayout() b) removeLayout() c) setLayout() d) getLayout() COS
- Q. 42 Which loop is guaranteed to execute at least once in Java?
a) for loop b) while loop c) do-while loop d) if-else statement COS
- Q. 43 What is the default value of an int array element in Java?
a. 0 b. 1 c. -1 d. null COS
- Q. 44 What is the output of the following code snippet?
int a = 5;
int b = 7;
System.out.println(a & b);
a. 5 b. 7 c. Error d. No output COS
- Q. 45 Which of the following is not a Java bitwise operator?
a. & b. | c. ^ d. ~ COS
- Q. 46 What is the output of the following code snippet?
int a = 3;
int b = 4;
int c = 5;
System.out.println(++a * b - % c++);
a. 2 b. 3 c. 4 d. 5 COS

- Q. 47 Which of the following operators has the highest precedence?
 a) Assignment operator b) Addition operator c) Multiplication operator d) Bitwise AND operator CO6
- Q. 48 What is the result of the expression $10 \% 3$?
 a) 3 b) 1 c) 0 d) 2 CO6
- Q. 49 What is the result of the expression $2 + 3 + "4"$?
 a) "234" b) "9" c) "7" d) compilation error CO6
- Q. 50 What is the result of the expression $(10 > 5) ? "true" : "false"$?
 a) true b) false c) compilation error d) runtime error CO6
- Q. 51 How do you create a lambda expression in Java?
 a) By defining a new method in a class
 b) By implementing a new interface
 c) By using the `"->"` operator to separate the parameter list and the body of the function
 d) None of the above CO6
- Q. 52 Which of the following is NOT a functional interface?
 a) Predicate b) Consumer c) Supplier d) Integer CO6
- Q. 53 Which class is used to represent a set of characters?
 a) String b) StringBuilder c) StringBuffer d) CharArraySet CO6
- Q. 54 Which class is used to write output to the console?
 a) System b) PrintWriter c) PrintStream d) Console CO6
- Q. 55 Which of the following is NOT a valid type of constructor in Java?
 a) Default constructor b) Parameterized constructor c) Virtual constructor d) Copy constructor CO6
- Q. 56 Which of the following keywords is used to create an instance of a class?
 a) New b) Instance c) Create d) Object CO6
- Q. 57 What is the return type of the overridden method in Java?
 a) It must be the same as in the superclass
 b) It can be different from the superclass method return type
 c) It can be void only
 d) It can be int only CO6
- Q. 58 Which of the following is not a valid way to override a method in Java?
 a) Change the method name
 b) Change the method signature
 c) Change the method return type
 d) Change the method access modifier to a more restrictive one CO6
- Q. 59 Which keyword is used to declare a generic class in Java?
 a. class b. generic c. type d. template CO6
- Q. 60 What is the purpose of a generic class in Java?
 a. To make code more efficient
 c. To create reusable code b. To make code more readable
 d. To restrict the types that can be used in code CO6

End of Question Paper

Course Code: CSE310
Course Title: PROGRAMMING IN JAVA

Paper Code A

Time Allowed: 3 hrs

Read the following instructions carefully before attempting the question paper.

Max. Marks: 60

1. Match the Paper Code shaded on the OMR Sheet with the Paper code mentioned on the question paper and ensure that both are the same.
2. This question paper contains 60 questions of 1 mark each. 0.25 marks will be deducted for each wrong answer.
3. All questions are compulsory.
4. Do not write or mark anything on the question paper except your registration no. on the designated space.
5. Submit the question paper and the rough sheet(s) along with the OMR sheet to the invigilator before leaving the examination hall.

- Q. 1 Java is an
a) interpreted language b) compiler language c) execution language d) all of above
- Q. 2 In JAVA programming, int data type occupies
a) 2 bytes of memory b) 4 bytes of memory c) 8 bytes of memory d) None of Above
- Q. 3 Java doesn't support
a) Function overloading b) Operator overloading c) Function overriding d) Operator overriding
- Q. 4 A variable declared inside the class but outside the body of the method, is called an
a) Static variable b) instance variable c) dynamic variable d) dummy variable
- Q. 5

```
public class Hello{
    public static void main(String args[]){
        int a=20;
        int b=10;
        int min=(a<b)?a:b;
        System.out.println(min);
    }
}
```


a) 20 b) 10 c) Syntax Error d) Logical Error
- Q. 6 _____ keyword can be used to refer the current object in a method.
a) static b) this c) instanceof d) default
- Q. 7 java.util package is a
a) weakly cohesive package b) strongly cohesive package
c) not a cohesive package d) both a and b
- Q. 8 _____ method returns the position of the first occurrence of a specified text in a string
a) stringOf() b) indexOf() c) posinOf() d) whitespaceOf()
- Q. 9 The _____ keyword specifies some code to run if there is no case match
a) mismatch b) argument c) default d) break
- Q. 10 Run time polymorphism is also called as
a) Compiler time b) Static c) Dynamic d) All of Above
- Q. 11 Find the output of the following code.

```
int ++a = 100;
System.out.println(++a);
```


a) 100 b) 101 c) 102 d) Compiler error
- Q. 12 Which of following is not way to initialize object in Java.
a) By reference variable b) By method c) By constructor d) By function
- Q. 13 _____ is a process of hiding the implementation details and showing only functionality to the user?
a) Abstraction b) Overriding c) Overloading d) Interleaving