

Roll no.\_\_\_\_\_

ID: 180841/170841

Semester: 4<sup>th</sup>

Branch: Computer

Subject Name: Object Oriented Programming Using Java

Time Allowed : 3 Hrs.

MM:100

### Section -A

**Note: Multiple Choice questions. All questions are compulsory.**

**10x1=10**

- Q.1 Arrays in java are:  
a) Primitive data type      b) Objects      c) References      d) none
- Q.2 Which component is used to compile, debug and execute the java programs?  
a) JRE      b) JIT      c) JDK      d)JVM
- Q.3 Which one of the following is not a Java feature?  
a) Object-oriented      b) Use of pointers  
c) Portable      d) Dynamic and Extensible
- Q.4 Which of these cannot be used for a variable name in Java?  
a) identifier & keyword      b) identifier  
c) keyword      d) none of the mentioned
- Q.5 What is the extension of java code files?  
a) .js      b) .txt  
c) .class      d) .java
- Q.6 Which of the following is not an OOPS concept in Java?  
a) Polymorphism      b) Inheritance  
c) Compilation      d) Encapsulation
- Q.7 Which of the following is a type of polymorphism in Java Programming?  
a) Multiple polymorphism      b) Compile time polymorphism  
c) Multilevel polymorphism d) Execution time polymorphism
- Q.8 Which exception is thrown when java is out of memory?  
a) MemoryError      b) OutOfMemoryError  
c) MemoryOutOfBoundsException      d) MemoryFullException
- Q.9 Which of these are selection statements in Java?  
a) break      b) continue  
c) for()      d) if()
- Q10 Which of these keywords is used to define interfaces in Java?  
a) intf      b) Intf  
c) interface      d) Interface

### Section-B

**Note: Objective type questions. All questions are compulsory.**

**10x1=10**

- Q.11 Java is an \_\_\_\_\_ language.
- Q.12 Full form of IDE is\_\_\_\_\_
- Q.13 OOPS language uses the concept of Abstraction. (T/F)
- Q.14 Define class.
- Q.15 Object is an instance of class. (T/F)
- Q.16 Java was developed by\_\_\_\_\_
- Q.17 Name two logical operators.
- Q.18 Define abstract class.
- Q.19 Define Constructor.
- Q.20 Define exception.

### Section -C

**Note: Short answer type Questions. Attempt any twelve questions out of fifteen questions.**

**12x5=60**

- Q.21 What is the difference between a class and object?
- Q.22 What are the features of OOPS?
- Q.23 Explain various data types supported by Java.
- Q.24 What is the structure of Java program?

- Q.25 Explain switch case statement with example.
- Q.26 Define array. How can we declare arrays in java?
- Q.27 Explain the different types of constructors in java with example.
- Q.28 What is the difference between multilevel and hierarchical inheritance?
- Q.29 Explain method overloading and constructor overloading.
- Q.30 What is the difference between method overloading and method overriding?
- Q.31 How multiple inheritance can be implemented using interface.
- Q.32 Define the keywords: try, throw, catch and finally.
- Q.33 Differentiate between public, private and protected variables in java.
- Q.34 How the concept of polymorphism is implemented in java.
- Q.35 Why java is called an object oriented programming language?

#### **Section-D**

**Note: Long answer questions. Attempt any two questions out of three questions.**

**2x10=20**

- Q.36 Define inheritance. Explain its types with example.
- Q.37 What are exceptions and how they are handled in Java. Explain with an example.
- Q.38 Explain various operators used in java with examples.