

No. of Printed Pages : 4

Roll No.

170841

4th Sem. / Computer Engineering

Subject : Oriented Programming Using JAVA

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note:Objective type questions. All questions are compulsory (10x1=10)

- Q.1 Define class. (CO1)
- Q.2 Give name of one procedural language. (CO1)
- Q.3 Give name of any two keywords of JAVA. (CO2)
- Q.4 A collection of similar items is called..... (CO3)
- Q.5 What is symbol of increment operator in JAVA. (CO2)
- Q.6 Define keywords. (CO2)
- Q.7 Multiple inheritance can be achieved using..... in JAVA. (CO6)
- Q.8 JDK stands for (CO8)

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Q.9 Byte is a data type to read integer values. (TRUE/FALSE) (CO2)

Q.10 Name of the constructor should be same as the name of class defining it. (True/False) (CO5)

SECTION-B

Note:Very short answer type questions. Attempt any ten questions out of twelve questions. 10x2=20

- Q.11 Define encapsulation. (CO1)
- Q.12 How we can declare a one dimensional array in Java. (CO2)
- Q.13 List any four relational operators of JAVA. (CO2)
- Q.14 Give syntax of while loop of JAVA. (CO2)
- Q.15 Define object. (CO4)
- Q.16 What is multilevel inheritance. (CO6)
- Q.17 Define byte code. (CO8)
- Q.18 Define interface. (CO9)
- Q.19 What is an exception. (CO10)
- Q.20 Can we create object of a class. (CO5)
- Q.21 What is meant by the terms subclass. (CO6)

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Q.22 What is the purpose of the scanner class in JAVA. (CO3)

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. 8x5=40

Q.23 Write short note on Inheritance. (CO6)

Q.24 Give any two differences between while and do while loop. (CO3)

Q.25 Write short note on hierarchical inheritance. (CO6)

Q.26 Explain the concept of method overriding. (CO7)

Q.27 Write a program to print factorial of a number in JAVA. (CO3)

Q.28 Define abstract class in JAVA. (CO9)

Q.29 Give any two differences between class and interface. (CO9)

Q.30 How do you define a try block in JAVA. (CO10)

Q.31 Give any two advantages of using arrays. (CO3)

Q.32 Define Constructor. (CO5)

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SECTION-D

Note: Long answer type questions. Attempt any three questions out of four questions. 3x10=30

Q.33 Compare object oriented and procedure oriented languages. (CO1)

Q.34 Explain various conditional control statements of JAVA. (CO3)

Q.35 Define data type "Explain numeric and character data types of JAVA. (CO2)

Q.36 Explain the concept of inheritance with suitable example, explain various types of inheritances. (CO6)

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SECTION-A

Note: Multiple Choice Questions. All questions are Compulsory. (10x1=10)

Q.1 In Java code, the line that begins with / * and ends with */ is known as? (CO-2)

- a. Multiline comment b. Single line comment
- c. Both A & B d. None of these

Q.2 Who is known as father of Java Programming Language? (CO-2)

- a. James Gosling b. M. P. Java
- c. Charles Babbage d. Blaise Pascal

Q.3 Java supports multiple catch blocks with one try block (CO-9)

- a. True b. False

Q.4 JVM stands for (CO-8)

- a. Java Very Large Machine b. Java Verified Machine
- c. None of the above d. Java Virtual Machine

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Q.5 <= is a ____ operator. (CO-3)

- a. Arithmetic b. Unary
- c. Relational d. Logical

Q.6 The wrapping up of data and functions into a single unit is called. (CO-1)

- a. Abstraction b. Encapsulation
- c. Data Hiding d. Polymorphism

Q.7 Which of the following is not a Java feature? (CO-3)

- a. Multi threaded b. Portable
- c. Use of pointers d. Object Oriented

Q.8 In which year Java was developed (CO-2)

- a. 1972 b. 1986
- c. 1995 d. 2001

Q.9 Java Language was initially called as (CO-2)

- a. c++ b. oak
- c. Pine d. Sumatra

Q.10 Which of the following is not OOPS concept in Java (CO-1)

- a. Inheritance b. Encapsulation
- c. Polymorphism d. Compilation

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SECTION-B

Note: Objective type Questions. All Questions are compulsory. (10x1=10)

- Q.11 Expand IDE. (CO-8)
- Q.12 What is Byte Code. (CO-8)
- Q.13 Name any two exceptions. (CO-9)
- Q.14 Write two application of OOPS. (CO-1)
- Q.15 Define Java (CO-2)
- Q.16 Expand JDK (CO-8)
- Q.17 Define Variable (CO-2)
- Q.18 Define abstract class (CO-7)
- Q.19 Define Exception (CO-8)
- Q.20 Define Function (CO-5)

SECTION-C

Note: Short Answer type Question. Attempt any twelve questions out of fifteen Questions. (12x5=60)

- Q.21 Difference between POP & OOPS. (CO-1)
- Q.22 Define Inheritance. Write a program to implement Single Inheritance. (CO-6)
- Q.23 Explain various operators available in JAVA. (CO-2)
- Q.24 Explain output statement used in JAVA. (CO-3)

- Q.25 Define Constructor. How it is created in Java. (CO-4)
- Q.26 Define Array. Explain its various types. (CO-3)
- Q.27 Define Exception. How it is handled in Java. (CO-8)
- Q.28 What is method overloading. How it is implemented in JAVA. (CO-5)
- Q.29 Explain various data types available in JAVA. (CO-2)
- Q.30 Explain various forms of IF statement. (CO-3)
- Q.31 Write a program to print factorial of 5. (CO-3)
- Q.32 Define object. How it is created in Java with example. (CO-5)
- Q.33 Explain various access specifiers used in Java. (CO-5)
- Q.34 Difference between Object & Class. (CO-1)
- Q.35 Explain Java Program structure. (CO-2)

SECTION-D

Note: Long Answer Type Questions. Attempt any Two Questions out of three Questions. (2x10=20)

- Q.36 Explain various loops available in Java with example. (CO-3)
- Q.37 Explain various concepts of OOP. (CO-1)
- Q.38 Explain various features of JAVA. (CO-2)

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SECTION-A

Note:Objective type questions. All questions are compulsory. (10x1=10)

Q.1 Write one advantage of object oriented program. (CO-1)

Q.2 Is polymorphism supported in java (true /false). (CO-7)

Q.3 What is a scope of a variable. (CO-5)

Q.4 Use of ?: operator in java _____. (CO-2)

Q.5 Distinguish between class and object. (CO-1)

Q.6 In what way a switch statement differ from an if statement. (CO-2)

Q.7 Do while is entry controller loop? (True/False) (CO-2)

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Q.8 A collection of similar items is called _____. (CO-3)

Q.9 Write down the purpose of scanner class. (CO-4)

Q.10 Multiple inheritance can be achieved using _____ in java. (CO-6)

SECTION-B

Note:Very Short answer type questions. Attempt any ten questions out of twelve questions(10x2=20)

Q.11 Define a class. (CO-1)

Q.12 What is meant by precedence of operators. (CO-2)

Q.13 List the different forms of inheritance . (CO-6)

Q.14 Differentiate the usage of throw and throws. (CO-10)

Q.15 How abstract class different from interface. (CO-9)

Q.16 What is the use of finally block. (CO-10)

Q.17 What are access specifiers. (CO-5)

Q.18 State the uses of keyword final. (CO-10)

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- Q.19 What is the importance of exception handling.
(CO-10)
- Q.20 Define the terms abstraction. (CO-1)
- Q.21 What are methods. (CO-3)
- Q.22 What is meant by constructor chaining. (CO-1)

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x5=40)

- Q.23 What is an array? How is it declared? Explain with example. (CO-3)
- Q.24 Define an object. How object is created. (CO-4)
- Q.25 Explain the concept of method overriding with suitable example. (CO-7)
- Q.26 Write a short note on try-catch. (CO-10)
- Q.27 What do you mean by method overloading. Give an example. (CO-7)
- Q.28 Write a short note on data types of java. (CO-3)
- Q.29 Differentiate between procedure oriented programming vs object oriented programming. (CO-1)

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- Q.30 Explain in brief:
(a) polymorphism
(b) encapsulation. (CO-1)
- Q.31 Write a short note on object and object reference. (CO-5)
- Q.32 Discuss in brief implementation of multiple inheritance through interface. (CO-9)

SECTION-D

Note: Long answer type questions. Attempt any three questions out of four questions. (3x10=30)

- Q.33 Discuss the various types of operators in java. (CO-2)
- Q.34 What is abstract class? Explain with an example program. (CO-9)
- Q.35 Write a program in java to find sum and average of N given numbers. (CO-3)
- Q.36 Write a java program to implement inheritance. (CO-6)

(**Note:** Course outcome/CO is for office use only)

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