

PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
B.Tech. Summer 2021 - 22 Examination

Semester: 5
Subject Code: 203105333
Subject Name: Object Oriented Programming with Java

Date: 21/04/2022
Time: 10:30am to 1:00pm
Total Marks: 60

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

Q.1 Objective Type Questions - (All are compulsory) (Each of one mark) (15)

1. Java programming language have Garbage Collection facility. True or False?
2. A constructor may have different name than the class name. True or False?
3. Which type of inheritance is a combination of single and multiple inheritance?
4. Which package is imported by default? Give answer in one word.
5. Wrapper class is a wrapper around which data type?
6. _____ method can be called without an instance of a class.
7. JVM full form is _____.
8. _____ is the technique of binding both data and functions together.
9. When two different objects interpret a single message differently and respond differently, it is known as _____.
10. _____ is used to find and fix bugs in the Java programs.
11. Java source code compiled into
(A) Object Code (B) Source Code (C) Byte Code (D) Executable Code
12. Which inheritance in java programming is not supported?
(A) Single (B) Multilevel
(C) Multiple inheritance using interfaces (D) Multiple inheritance using classes
13. Which is reserved keyword in java?
(A) Abstract (B) Extends (C) Package (D) All of these
14. Which keyword is used to define a constant in Java?
(A) Static (B) Abstract (C) Final (D) Private
15. Java is called as which type of programming language?
(A) Object Oriented (B) Procedure oriented
(C) Function Oriented (D) Recursion oriented

Q.2 Answer the following questions. (Attempt any three) (15)

- A) Explain about inheritance with example. Mention its advantages also.
- B) What is JVM and bytecode? Draw diagram for JVM also.
- C) Briefly explain about java Swing.
- D) Explain exception handling in java.

Q.3 A) Differentiate between abstraction and encapsulation. (07)

B) Explain exception hierarchy with diagram. (08)

OR

B) What is package? What are the benefits of package? Explain with example. (08)

Q.4 A) Describe properties of java AWT components. Explain methods used in component class. (07)

OR

A) Explain process-based multitasking and thread-based multitasking. (07)

B) What is polymorphism? Describe types of polymorphism. (08)

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