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BPLCK105C/BPLCKC105

**First Semester B.E./B.Tech. Degree Supplementary Examination,
June/July 2024**

Basics of Java Programming

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks , L: Bloom's level , C: Course outcomes.*

| Module – 1 | | | | M | L | C |
|------------|----|--|--|---|----|-----|
| Q.1 | a. | Explain any three object Oriented principles. | | 6 | L2 | CO1 |
| | b. | Describe the process of compiling and running the Java application, with example. | | 6 | L1 | CO1 |
| | c. | Discuss the various primitive data types used in Java. | | 8 | L1 | CO1 |
| OR | | | | | | |
| Q.2 | a. | Explain type conversion in Java with example. | | 6 | L2 | CO1 |
| | b. | What are keywords and identifiers? List the rules to write identifiers. | | 6 | L1 | CO1 |
| | c. | How are array declared and initialized in Java? Explain with suitable examples. | | 8 | L2 | CO1 |
| Module – 2 | | | | | | |
| Q.3 | a. | What are different types of operators in Java? Explain them. | | 6 | L2 | CO1 |
| | b. | Write a program to find biggest among 3 numbers using ternary operator. | | 6 | L1 | CO1 |
| | c. | Demonstrate working of break with labels in Java. | | 8 | L2 | CO1 |
| OR | | | | | | |
| Q.4 | a. | Differentiate between while loop and do While loop in Java. | | 6 | L2 | CO1 |
| | b. | With program, explain continue and return keywords in Java. | | 6 | L2 | CO1 |
| | c. | Write a program to calculate the average among the elements 4, 8, 10, 12 using for each in JAVA. | | 8 | L3 | CO1 |
| Module – 3 | | | | | | |
| Q.5 | a. | Distinguish between Method Overloading and Method Overriding in Java, with suitable example. | | 8 | L2 | CO3 |
| | b. | Mention and explain the use of This keyword in Java. | | 6 | L2 | CO1 |
| | c. | What are Constructors? Explain two types of constructors. | | 6 | L2 | CO1 |
| OR | | | | | | |

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|-------------------|----|---|---|----|-----|
| Q.6 | a. | Explain Garbage collection in Java. | 6 | L2 | CO1 |
| | b. | Explain how to perform stack operation using proper class and methods. | 8 | L3 | CO1 |
| | c. | Mention and explain the use of final keyword in Java. | 6 | L2 | CO3 |
| Module – 4 | | | | | |
| Q.7 | a. | What is Inheritance? Discuss different types of inheritance with suitable example. | 8 | L2 | CO3 |
| | b. | Explain Abstract class and Abstract method with an example. | 6 | L2 | CO3 |
| | c. | Demonstrate the working of final class and final method in Java. | 6 | L3 | CO3 |
| OR | | | | | |
| Q.8 | a. | Explain two uses of super keyword with example. | 6 | L2 | CO3 |
| | b. | Demonstrate dynamic dispatch with abstract class in Java. | 8 | L3 | CO3 |
| | c. | Explain Object class in Java. | 6 | L2 | CO3 |
| Module – 5 | | | | | |
| Q.9 | a. | Explain the steps involved in creating user defined package with an example. | 8 | L2 | CO4 |
| | b. | Explain the syntax of throw and throws with example. | 4 | L3 | CO4 |
| | c. | How do you define variables inside interface? List out the characteristics of such variables. | 8 | L2 | CO3 |
| OR | | | | | |
| Q.10 | a. | What is an Interface? Explain how to define and implement interface by taking suitable example. | 8 | L2 | CO3 |
| | b. | How do you create your own exception class? Explain with program. | 8 | L3 | CO4 |
| | c. | Explain the use of try and catch block in JAVA. | 4 | L2 | CO4 |
