

CBCS SCHEME

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MCSE

Sixth Semester B.E. Degree Examination, June/July 2023  
**Advanced JAVA and J2EE**

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

**Module-1**

- |   |    |   |            |
|---|----|---|------------|
| 1 | a. | What are annotations? How to use an annotation constructor, instance variable and method. Explain with example. | (10 Marks) |
|   | b. | What is Autoboxing? Write a Java program that demonstrates autoboxing using Integer inside expressions.         | (10 Marks) |
|   | c. | What is Annotation? Explain various retention policies for annotations in Java.                                 | (10 Marks) |

**OR**

- |   |    |   |            |
|---|----|---|------------|
| 2 | a. | Explain valueOf() and intValue() methods used in wrapper class with example program.                                      | (10 Marks) |
|   | b. | What do you mean by type wrapper? Explain Integer to type wrapper with an example.  | (10 Marks) |
|   | c. | Explain the following built-in annotations with an example program: @Override, @Deprecated, @Override, @SuppressWarnings. | (10 Marks) |

**Module-2**

- |   |    |   |            |
|---|----|---|------------|
| 3 | a. | What is collection? Explain interface and methods available under collection interface. | (10 Marks) |
|   | b. | What are comparators? Write a Java program to sort accounts by last name.               | (10 Marks) |

**OR**

- |   |    |  |            |
|---|----|--|------------|
| 4 | a. | Explain the following Map methods: available program: (i) HashMap, (ii) TreeMap.   | (10 Marks) |
|   | b. | Explain any four key classes of Java's collection framework with suitable program. | (10 Marks) |

**Module-3**

- |   |    |   |            |
|---|----|---|------------|
| 5 | a. | What is StringBuilder? Explain string constructors with suitable programming example. | (10 Marks) |
|   | b. | Explain following comparison functions with suitable programs.                        | (10 Marks) |
|   | c. | Explain methods: indexOf() and lastIndexOf() Methods of string class with an example. | (10 Marks) |

**OR**

- |   |    |  |            |
|---|----|--|------------|
| 6 | a. | What is StringTokenizer? Write a program to override toString() and provide your own string representations. | (10 Marks) |
|   | b. | Explain the following StringBuffer methods with an example: append(), insert(), remove(), replace().         | (10 Marks) |
|   | c. | Write a program in Java to replace all the matching substring with a given string.                           | (10 Marks) |

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# Advanced Java Question Paper

**Peipei Pang**



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