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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 custom 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 interfaces: Hashtable, TreeMap, LinkedHashMap. (10 Marks)
- b. Explain any four key classes of Java's collection framework with suitable program. (10 Marks)

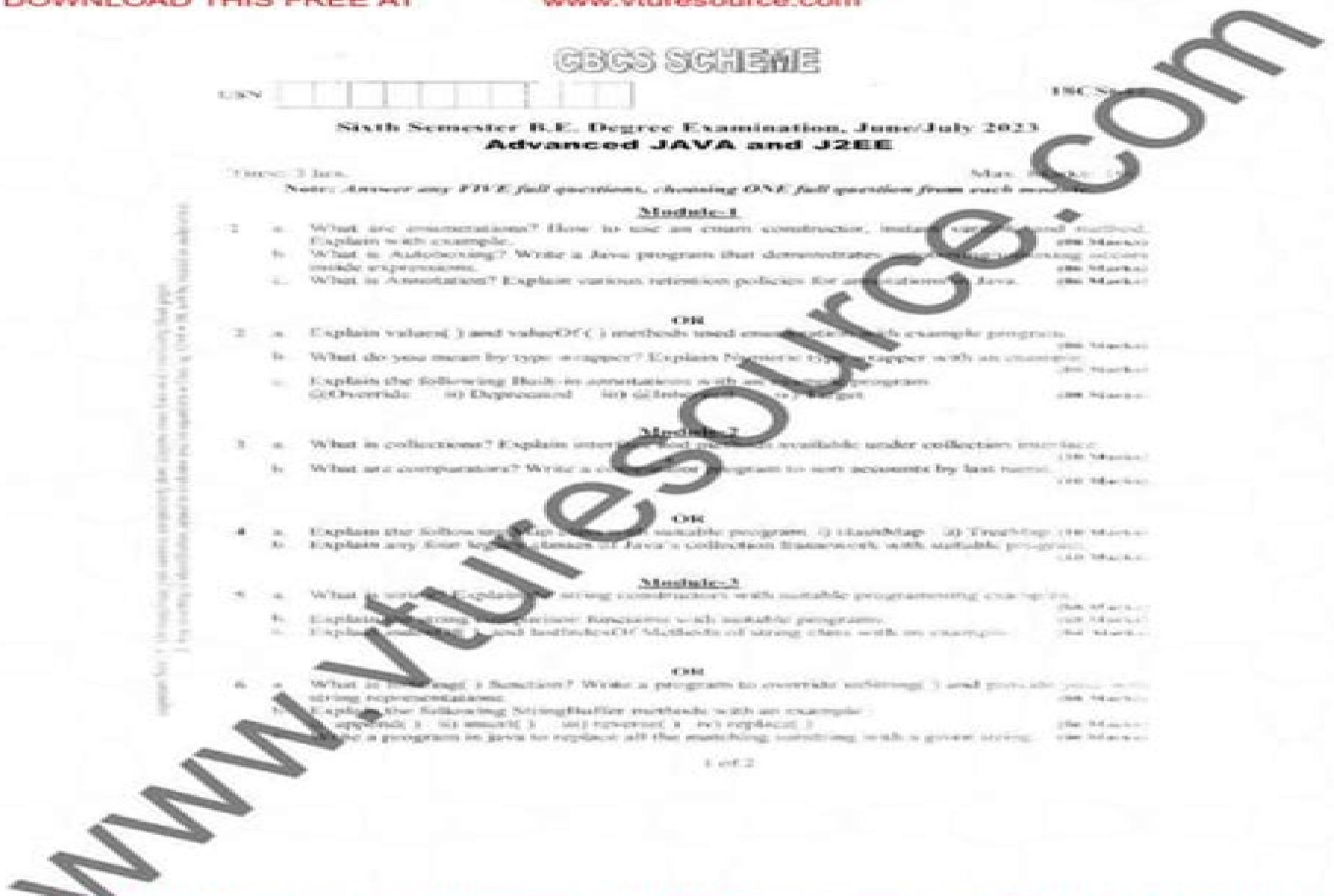
Module-3

- 5. a. What is StringBuffer? Explain string constructors with suitable programming example. (10 Marks)
- b. Explain any two comparison functions with suitable programs. (10 Marks)
- c. Explain toString() and hashCode() 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(), reverse(), 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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