

# CBCS SCHEME

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17CS553

## Fifth Semester B.E. Degree Examination, July/August 2021 Advanced Java and J2EE

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

1. a. What are enumeration? Explain values() and valueOf() methods with an example program. (06 Marks)  
b. Explain the following methods of java.lang. Enum with an example program.  
i) ordinal() ii) compareTo() iii) equals() (08 Marks)  
c. Discuss auto boxing and unboxing in java with an example program. (06 Marks)
2. a. Explain different retention policies for annotations in java. (06 Marks)  
b. Explain java Built-In annotations. (08 Marks)  
c. Demonstrate single member annotation with an example program. (06 Marks)
3. a. What is a collection framework? Explain the methods defined by the collection interface. (10 Marks)  
b. Explain the constructors of ArrayList. Write a java program that demonstrates how ArrayList can be used to insert and remove a string. (10 Marks)
4. a. Explain the constructors of TreeSet class and write a java program to create TreeSet collection. (10 Marks)  
b. Explain HashMap class. Write a java program that illustrates HashMap class. (10 Marks)
5. a. What is a Character Extraction? Explain the different ways to extract the character. (10 Marks)  
b. Explain how to modify a string by using following methods.  
i) substring() ii) concat() iii) replace() iv) trim(). (10 Marks)
6. a. Explain the following string comparison methods with examples :  
i) equals() and equalsIgnoreCase()  
ii) startsWith() and endsWith()  
iii) equals() versus ==  
iv) compareTo(). (10 Marks)  
b. Explain the following methods of StringBuffer class with examples.  
i) length() ii) append() iii) insert() iv) reverse() v) delete(). (10 Marks)
7. a. What is a servlet? Explain the life cycle of a servlet. (06 Marks)  
b. What is a cookie? Write a HTML and Java program for adding a cookie. (08 Marks)  
c. With a code snippet, explain how session tracking is handled in java with servlets. (06 Marks)

- 8 a. Explain the different types of JSP tags by taking suitable example. (10 Marks)  
b. Explain the two types of control statements used in JSP by taking suitable example. (05 Marks)  
c. Write a JSP program to create and read a cookie called "UserID" that has a value of JK1234. (05 Marks)
- 9 a. Explain various JDBC driver types. (10 Marks)  
b. Describe the various steps of JDBC process with suitable exception handling blocks. (10 Marks)
- 10 a. List and explain various statement objects in JDBC. (10 Marks)  
b. Explain scrollable resultset with an example. (10 Marks)

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