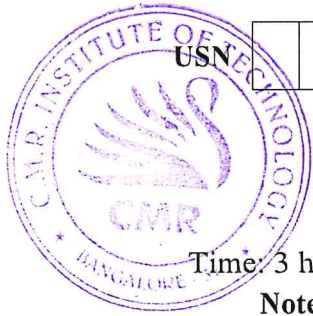


# CBCS SCHEME



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15CS553

## Fifth Semester B.E. Degree Examination, Aug./Sept. 2020 Advanced Java and J2EE

Time: 3 hrs.

Max. Marks: 80

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

### Module-1

- 1 a. What are Enumerations? Explain its two predefined methods with example. (07 Marks)
- b. Briefly, explain Numeric Type wrappers. (05 Marks)
- c. Describe Four annotations which are imported from java.lang.annotations. (04 Marks)

OR

- 2 a. Elaborate special kind of annotation that contains no members with its class. (07 Marks)
- b. Explain two important features of JAVA added beginning with JDK 5. (07 Marks)
- c. Give the construction of Enumeration with its example. (02 Marks)

### Module-2

- 3 a. What are the various changes that collection framework underwent recently? (05 Marks)
- b. Explain the methods defined by Deque. (07 Marks)
- c. Explain the Array list class of collection classes. (04 Marks)

OR

- 4 a. With an Example program. Explain how to store user-Defined classes in collections. (07 Marks)
- b. Mention and explain different interfaces that support maps. (06 Marks)
- c. Mention any four Legacy methods defined by vector. (03 Marks)

### Module-3

- 5 a. Briefly describe special string operations with syntax and examples. (06 Marks)
- b. Explain the following concepts (10 Marks)
  - i) charAt ( )
  - ii) getChar ( )
  - iii) append ( )
  - iv) reverse ( )

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OR

- 6 a. Explain any five Additional string buffer methods. (07 Marks)
- b. Write the Java program which prompts the user for the name of a state and then displays that state's capital. (07 Marks)
- c. Explain String Builders. (02 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

**Module-4**

- 7 a. Explain Five types of JSPTags. (06 Marks)  
b. Describe the core interfaces that are provided in Javax.Servlet.http package. (06 Marks)  
c. Write a program to show how to use defining and calling method using JSP Tags. (04 Marks)

**OR**

- 8 a. With a code, explain how to handle HTTP get requests and HTTP post requests. (09 Marks)  
b. Give step wise explanation to download and Install Tancat. (07 Marks)

**Module-5**

- 9 a. Write a Java program to open a connection with a database. (04 Marks)  
b. Mention all the steps to create the association between the database and the JDBC/ODBC bridge. (12 Marks)

**OR**

- 10 a. Write the Java program to connect to data base using URL and to connect data base using user ID and password. (08 Marks)  
b. Describe the following concepts  
i) Scrollable Result set  
ii) Callable statement  
iii) Transaction processing  
iv) Updatable Result set (08 Marks)

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