

CBCS SCHEME



15CS553

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Fifth Semester B.E. Degree Examination, June/July 2019 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? How to use an enum constructor, instance variable and method? Explain with example. (06 Marks)
- b. What is Autoboxing? Write a Java program that demonstrates autoboxing/unboxing occurs inside expressions. (06 Marks)
- c. Demonstrate marker annotations with an example. (04 Marks)

OR

- 2 a. Explain the various type wrappers used in Java. (05 Marks)
- b. What is Annotation? Explain various retention policies for annotations in Java. (05 Marks)
- c. Explain how to obtain annotations at run-time by use of reflection? (06 Marks)

Module-2

- 3 a. Explain the following collection interfaces: i) Queue ii) SortedSet. (08 Marks)
- b. Demonstrate ArrayList class for collections with an example. (08 Marks)

OR

- 4 a. Explain the following Map classes : i) HashMap ii) TreeMap. (08 Marks)
- b. Define legacy class-vector. Write a Java program to demonstrate various vector operations. (08 Marks)

Module-3

- 5 a. Explain the following string comparison methods with examples :
i) equals() ii) regionMatches() iii) startsWith iv) endsWith(). (08 Marks)
- b. Explain the various string constructors used in Java with examples. (08 Marks)

OR

- 6 a. Explain the following methods of StringBuffer class with examples :
i) capacity() ii) reverse() iii) deleteCharAt() iv) charAt(). (08 Marks)
- b. How compareTo() method differs from compareToIgnoreCase() method? Write a Java program to sort an array of string in descending order by ignoring the case. (08 Marks)

Module-4

- 7 a. Explain the life cycle of servlets. (04 Marks)
- b. How to handle HTTP GET requests and HTTP Post requests? Explain with examples. (08 Marks)
- c. Write a servlet program that demonstrates how to use session state. (04 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.



OR

- 8 a. What is JSP? Explain the various types of JSP tags with examples. (10 Marks)
- b. What is a cookie? Write a JSP program to create and read a cookie. (06 Marks)

Module-5

- 9 a. List and explain the different types of JDBC drives types. (06 Marks)
- b. Write a Java program to execute a database transaction. (06 Marks)
- c. List and explain the three kinds of exceptions occurred in JDBC. (04 Marks)

OR

- 10 a. Explain the various steps of JDBC with code snippets. (08 Marks)
- b. Explain the following statement objects with examples : (08 Marks)
 - i) PreparedStatement object
 - ii) CallableStatement object.
