

CBCS SCHEME

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18CS644

Sixth Semester B.E. Degree Examination, Dec.2024/Jan.2025 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 enumerations? Explain values() and ValueOf() method with an example. (06 Marks)
- b. Describe autoboxing and unboxing. Write a program that demonstrates the same inside expressions. (06 Marks)
- c. What are annotations? Explain the following built in annotations:
(i) override (ii) inherited (iii) retention. (08 Marks)

OR

- 2 a. Explain the various wrappers used in Java. (08 Marks)
- b. Describe how reflections can be used at run time with annotations. (08 Marks)
- c. Demonstrate marker annotation with example. (04 Marks)

Module-2

- 3 a. Demonstrate linked lists for collections with examples. (07 Marks)
- b. Explain how collections can be accessed using iterator. (06 Marks)
- c. Demonstrate ArrayList class collection with examples. (07 Marks)

OR

- 4 a. Explain the following legacy classes with examples :
(i) HashTable (ii) Vector (08 Marks)
- b. Explain collection Framework with methods defined by collection interface. (08 Marks)
- c. Explain Queue Interface. List different methods defined in Queue. (04 Marks)

Module-3

- 5 a. Explain with syntax and example the different constructors available for creating a string. (08 Marks)
- b. Explain the usage of the following methods :
(i) charAt() (ii) getChars() (iii) getBytes (iv) toCharArray() (08 Marks)
- c. Write a program to remove duplicate characters from a given string and display the resultant string. (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

- 6 a. Explain the following for a string buffer class with examples:
(i) capacity() (ii) reverse() (iii) Char replace (iv) deleteCharAt()
(v) concat (10 Marks)
- b. Explain the following with syntax and example:
(i) equals() and equalsIgnoreCase()
(ii) regionMatches()
(iii) startsWith() and endsWith()
(iv) equals() versus == (10 Marks)

Module-4

- 7 a. Explain the differences between servlets and CGI. With a neat diagram explain the life cycle of a servlet. (10 Marks)
- b. Describe the core interfaces that are provided in Javax.Servlet.http package. (10 Marks)

OR

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

Module-5

- 9 a. Explain briefly the different types of JDBC drivers. (10 Marks)
- b. Explain various steps of JDBC with code snippets. (10 Marks)

OR

- 10 a. What is connection pooling? Explain the same with neat diagrams and code snippets. (10 Marks)
- b. Describe the following :
i) Scrollable result set
ii) Callable result set
iii) Transaction processing
iv) Updated result set. (10 Marks)
