

CBCS SCHEME

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BANGALORE - 560 037

15CS553

Fifth Semester B.E. Degree Examination, June/July 2018 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 is an Enumeration? Explain with an example. (05 Marks)
- b. Demonstrate how enumerations can be applied as class types. (05 Marks)
- c. Discuss Auto boxing/unboxing in Java with an example. (06 Marks)

OR

- 2 a. What is an Annotation? Explain various retention policies for annotations in java. (05 Marks)
- b. Discuss how reflections can be used at runtime with annotations. (06 Marks)
- c. Demonstrate single member annotations with an example. (05 Marks)

Module-2

- 3 a. Discuss the following collection interfaces: i) Set ii) List. (08 Marks)
- b. Demonstrate linked list for collections with an example. (08 Marks)

OR

- 4 a. Explain how collections can be accessed using an iterator. (08 Marks)
- b. Explain the following legacy classes with an example: i) Hashtable ii) Vector. (08 Marks)

Module-3

- 5 a. Explain why do we need strings. Briefly explain different ways of creating strings. (05 Marks)
- b. Write a program to remove duplicate characters in a given string and display new string without any duplicates. (05 Marks)
- c. Explain how strings can be modified in Java with different methods. (06 Marks)

OR

- 6 a. What String Buffer? Explain how it is different from strings. (06 Marks)
- b. Explain the following String Buffer methods: i) insert () ii) append () iii) substring () iv) replace (). (06 Marks)
- c. Explain how to check the occurrences of a substring or characters in a given string. (04 Marks)

Module-4

- 7 a. Explain the life cycle of a servlet. (04 Marks)
- b. Demonstrate how servlet can accept parameters from HTML. (06 Marks)
- c. Explain how cookies can be handled using servlets. (06 Marks)

OR

- 8 a. Explain how session trading can be done with servlets. (04 Marks)
- b. Demonstrate how parameters can be accessed from HTML using JSP. (06 Marks)
- c. Explain how cookies can be handled using JSP. (06 Marks)

Module-5

- 9 a. List and explain various JDBC driver types. (09 Marks)
- b. Explain what are the basic steps involved in database connection. (07 Marks)

OR

- 10 a. List and explain various statement objects in JDBC. (07 Marks)
- b. What is Result set? Explain types of Result sets in JDBC. (05 Marks)
- c. Explain the types of exceptions occurred in JDBC. (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.

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