

CBCS SCHEME

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Fifth Semester B.E. Degree Examination, Feb./Mar. 2022 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 Define Enumeration. Outline its syntax. Compare JAVA and C++ enumeration. (06 Marks) Design a JAVA program to implement ordinal(), compareTo() and equals(). (08 Marks) Discuss Autoboxing and Auto unboxing with an example. (06 Marks) Define Annotations and mention its need. (04 Marks) Discuss the following built-in annotations with an example: (i) @Override (ii) @Deprecated (iii) @Retention (10 Marks) Discuss values() and valueOf() methods with an example. (06 Marks) Module-2 Define collection classes. List and give description of different collection classes. (10 Marks) 3 Discuss LinkedList class with an example. (10 Marks) Explain constructors of Priority Queue. (10 Marks) Demonstrate different methods defined by de queue with example. b. (10 Marks) Module-3 Discuss Java String constructors with an example. (10 Marks) b. Discuss following string methods with an example: (ii) equalIgnoreCase() (iii) getChar() (i) equals() (iv) trim() (10 Marks) OR Demonstrate following string methods with an example: (ii) delete() (iii) replace() (i) append() (10 Marks) b. Explain String Searching with an example. (10 Marks) 7 Discuss the life cycle of a servlet with an example. (10 Marks) b. Design a JAVA Servlet which reads two parameters from the webpage, say num 1 and num 2, which are type integers and perform arithmetic operation(+, -, *, /) of the two numbers and return back the result to the webpage. (10 Marks) Demonstrate the different types of Java Server Page with example. (10 Marks) b. Design a JSP program to check whether User entered number is ODD or EVEN. (05 Marks) Design a JSP program to check whether user entered year is leap year or not. (05 Marks) Module-5 Describe the various steps in JDBC process with suitable example. (10 Marks) b. Discuss ResultSetMetaData and design a JDBC program to display table column count and

OR

a. Discuss JDBC prepared statement object with JDBC program.

b. Discuss Scrollable ResultSet object with JDBC program.

(10 Marks)

(10 Marks)

(10 Marks)

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

column type.