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II SEMESTER M.C.A. END SEMESTER EXAMINATION – APRIL 2018 (REVISED CREDIT SYSTEM)

SUBJECT: ADVANCED JAVA PROGRAMMING [MCA 4201]

17-04-2018

Time : 3 hours Max. Marks : 50

Instructions to Candidates

- 1. Answer ALL questions.
- 2. Missing data may be suitably assumed.
- Explain the purpose of FileReader and FileWriter classes. Write the syntax of read() and write() methods of these classes and explain their working. Write a code snippet to transfer the contents of the text file "input.txt" to another text file "output.txt". Explain the steps. What do you mean by BorderLayout in AWT? Explain the two constructors used to 3 create a BorderLayout. List the constants used to specify various regions in BorderLayout. Explain. What is a socket? What are the components of a socket address? 2 Define a package. Explain the method of creating a package and using it in another 2A 5 program. Illustrate with an example. What is an exception? How can it be handled in a program? Explain with an example 2B 2C Differentiate between indexOf() and lastIndexOf() methods of String class. Given the 2 string s = "Master of Computer Applications", write the values of m and n obtained after executing the statements: a) int m = s.indexOf ("er") b) int n = s.lastIndexOf ("te", 5).

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What is the difference between String and StringBuffer objects? Explain the following with syntax and an example each. a) compareToIgnoreCase() method of String class. b) setCharAt() method of StringBuffer class. How does the mkdir() method of File class differ from the mkdirs() method? Illustrate 3B them for the file path "/dir1/dir2/dir3". 3C List the two uses of super keyword. 2 Explain the use of a listIterator object? Write the syntax of hasPrevious() and 5 hasNext() methods of the listIterator interface. Illustrate with an example each. What is a ResultSet? What are the two ways of retrieving data from the ResultSet? 4B Explain with an example. 4C List the four components of a URL specification. 2 Name the two classes used for data communication using TCP? Explain, with an 5 example, the relevant methods and steps used for communication between a Server and a Client. Explain with syntax, the getEchoChar() and setEchoChar() methods of TextField class 5B of AWT. How does the wait() method of the Thread class differ from the sleep() method in the context of holding / releasing the monitor?