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**Question Paper Code: 41022**

B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2015.

Fourth Semester

Computer Science and Engineering

01UCS403 – JAVA PROGRAMMING

(Common to Information Technology)

(Regulation 2013)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions.

PART A - (10 x 2 = 20 Marks)

1. State any two salient features of Java.
2. What are the uses of SUPER keyword?
3. List out the built-in packages available in Java.
4. How an interface is differing from class?
5. What are the ways a thread can be created?
6. What is the use of FINALLY keyword in Java?
7. Define event source and event listener.
8. What is container class?
9. What is the difference between byte stream classes and character stream classes?
10. What is JDBC?

PART - B (5 x 16 = 80 Marks)

11. (a) (i) What is the use of THIS keyword? Explain with example. (8)

(ii) Can constructor be overloaded? Justify. (8)

Or

(b) (i) Explain different types of array used in Java with neat syntax. (8)

(ii) Explain any four StringBuffer class methods. (8)

12. (a) (i) Write a Java program that implements multiple inheritance using interface. (10)

(ii) How Java implements run time polymorphism. Explain with example. (6)

Or

(b) How to create user defined packages. Create your own package with three classes and use it in the Java program. (16)

13. (a) Explain the life cycle of the thread with neat diagram. Create three threads that displays the following,

Thread 1 – displays odd numbers

Thread 2 – displays the numbers from 1 to 100 which are divisible by 5

Thread 3 – displays multiplication table for 8 (16)

Or

(b) Explain various exception handling mechanisms available in Java with neat example. (16)

14. (a) Explain various Event Classes with their methods in detail. (16)

Or

(b) Explain various controls for layout management in detail. (16)

15. (a) Write a Java program to copy the contents from one file into another. (16)

Or

(b) What is object serialization? Explain with example. (16)