**Reg. No. :** | | | | | | | | | | |

## Question Paper Code: 31243

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2017

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. What are the access specifiers available in java?
2. Differentiate between break and continue statement.
3. What are proxies? How are they advantageous?
4. List out any two uses of the keyword “super”.
5. What is use of finally block in exception handling?
6. What are the two ways for creating a thread?
7. Differentiate Applet and Swing.
8. What are events?
9. Define marshaling and un-marshaling.
10. What is the job of filter and pipe streams in java?

PART - B (5 x 16 = 80 Marks)

11. (a) Write a java program to find factorial of a given number using default and parameterized constructors. (16)

Or

(b) Write a java program to sort the given array and find a given element is in that array or not. (16)

12. (a) Define package. Explain with suitable examples how packages can be created, imported and used. Also elaborate on its scope. (16)

Or

(b) What did you mean by polymorphism? Explain how run-time polymorphism is achieved in java with example. (16)

13. (a) Write a java program to implement producer-consumer problem using thread synchronization. (16)

Or

(b) What is exception handling in java? Why it is used? Write java program to handle the exception "divide by zero". (16)

14. (a) Explain in detail about AWT event hierarchy model. (16)

Or

(b) Write a java program to draw any four shapes in a frame. (16)

15. (a) Explain in detail about java I/O stream classes with example. (16)

Or

(b) List out the steps to be followed to connect java with database. Explain that with an example. (16)

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