LJ-435

M.Sc. Computer Science

3rd Semester Examination, July-Dec., 2020

Paper - I

Programming in Java

Time : Three Hours] [*Maximum Marks* : 100

Note : Answer any **two** parts from each question. All questions carry equal marks.

Unit-I

1. (*a*) How java is different from C and C++ languages ? Explain JVM.

(*b*) What is Vector ? Write functions used in vectors.

(*c*) Write a java program to arrange any five given strings into ascending order.

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Unit-II

2. (*a*) Describe abstract methods and classes.

(*b*) What is an interface ? Explain usage of an interface.

(*c*) Enumerate thread synchronization and thread priorities.

Unit-III

3. (*a*) How user defined Exception is used in Java ? Explain it using an example.

(*b*) Explain byte/character stream in Java.

(*c*) By describing applet tag write its attributes.

Unit-IV

4. (*a*) What is AWT ? Write its components.

(*b*) Write short notes on the following :

(*i*) Listeners

(*ii*) Layout Managers

(*c*) Write a java program to insert records into Emp table through JDBC.

Unit-V

5. (*a*) Explain the functionality of TCP/IP based networking.

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(*b*) Write a short note on life cycle of a Servlet.

(*c*) Write short notes on the following :

(*i*) Generic Servlet

(*ii*) HTTP Servlet

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