ED-633

M.Sc. 3rd Semester
Examination, March-April 2021

COMPUTER SCIENCE

Paper - I

Programming in Java

Time : Three Hours] [*Maximum Marks* : 100
[*Minimum Pass Marks* : 40

Note : Answer any **two** parts from each question. All questions carry equal marks. Provide suitable examples code whenever necessary.

Unit-I

1. (*a*) How can you create class and object and passing object to method ?

   (*b*) Write a program to find out factorial of any number.

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

   (*i*) JVM

   (*ii*) this keyword

Unit-II

2. (*a*) Explain Inheritance using one example of program.

DRG_19_(2) *(Turn Over)*

(2)

(*b*) What is Package ? Explain package statement and creation of package.

(*c*) What is Thread ? Describe Thread priorities and Thread synchronization.

Unit-III

3. (*a*) Explain File reader/writer and File sequential/random.

(*b*) What do you understand by <APPLE> tag and its attributes ?

(*c*) What is Error and Exception ? How can you manage it ?

Unit-IV

4. (*a*) What is Layout Manager ? Explain any two types of layout.

(*b*) Explain AWT and its component.

(*c*) Describe the role of prepared and callable statement.

Unit-V

5. (*a*) Explain Servlet with their life cycle.

(*b*) What are the Networking classes and Interfaces ?

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

(*i*) HTTP Servlet

(*ii*) Servlet Config

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