



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.
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(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