FACULTY OF INFORMATICS

MCA (NON-CBCS) I Year II Semester (Backlog) Examination, April 2022

Subject: Principles of Object Oriented Programming using JAVA

Time: 3 Hours Max. Marks: 80

(Missing data, if any, may be suitably assumed)

Note: Answer any five questions from the following.

All questions carry equal marks.

- 1 (a) Explain Object Oriented Development in detail.
 - (b) Illustrate Object Oriented Concepts with examples.
- 2 (a) Illustrate Classes and objects with examples.
 - (b) Demonstrate types of inheritance.
- 3 (a) Define Thread. Explain Multithreading with example.
 - (b) Demonstrate Print Writer Class with an example.
- 4 (a) Define Exception? Write a program on Exception Handling.
 - (b) Demonstrate String in java with examples.
- 5 (a) Illustrate Collection Classes with an example.
 - (b) Explain Random Access Interface with example.
- 6 (a) Discuss Maps and Arrays with examples.
 - (b) Demonstrate Bit Set and Date with example.
- 7 (a) Illustrate Files in java with examples.
 - (b) Explain java I/O classes and interfaces.
- 8 (a) Discuss Stream and Byte Classes.
 - (b) Illustrate Serialization with an example program.
- 9 (a) Demonstrate event handling with example.
 - (b) Explain Customizing Frame Windows.
- 10 (a) Discuss about GUI programming.
 - (b) Illustrate the use of Layout Managers.
