

FACULTY OF ENGINEERING

B.E. VI Semester (CBCS)(Suppl.) Examination, December 2019 / January 2020

Subject: OOP Using Java (Elective – I)

Time: 3 Hours

Max. Marks: 70

Note: Answer all questions from Part-A, & Answer any five questions from Part-B.

PART – A (10 x 2 = 20 Marks)

- 1 Write short notes on Layout managers.
- 2 Differentiate between C++ and JAVA.
- 3 Is JAVA strongly typed language or loosely typed language? Justify.
- 4 List the methods of File class.
- 5 What is Inheritance?
- 6 Differentiate between overloading and overriding.
- 7 Differentiate between Byte Stream and Character Stream classes.
- 8 Give the difference between vector and Array list classes.
- 9 Explain about Random Access Interface.
- 10 Write a code to create login form using Frames.

PART – B (5 x 10 = 50 Marks)

11. a) Classify and explain various data types in JAVA. [5M]
b) Write a program to implement stack functionality with user defined exceptions for stack overflow and underflow. [5M]
12. a) Explain various methods of inter process communication in Threads? [4]
b) Create a user defined package which contains methods to perform compare, add, and subtraction operations on a Two-dimensional array. Test the package from another class. [6M]
13. a) Define interface? Explain the differences between abstract classes and interfaces? [5]
b) Explain the usage of String Tokenizer with example. [5M]
14. a) Write a program to demonstrate various subclasses of Set interface. [5M]
b) Write a program to display number of characters and number of words in a given file? [5M]
15. a) Explain the concept of Adapter class with an example. [5M]
b) Write a program to demonstrate mouse events. [5M]
16. a) Create a Student Registration form using various AWT Controls. [5M]
b) Explain the life cycle of an Applet using the program. [5M]
17. Write short notes on: [3]
a) final, finally and finalize keywords [3]
b) nested try/block statements [4]
c) Legacy classes and interfaces

