



DO NOT WRITE ANYTHING ON QUESTION PAPER EXCEPT YOUR NAME, DEPARTMENT AND ENROLMENT No.

POSSESSION OF MOBILE, SMART WATCH ETC. IN EXAMINATION IS A UFM PRACTICE

Name of Student ----- Enrolment No. -----

Department / School -----

BENNETT UNIVERSITY, GREATER NOIDA

Supplementary Examination, January 2020

COURSE CODE: ECSE102L

MAX. DURATION: **TWO HOURS**

COURSE NAME: Object Oriented Programming using Java

COURSE CREDIT: 5

MAX. MARKS: **100**

1. Answer any three questions

3 x 20 = 60 Marks

- 1.1 In a student grading system, ranges of total marks for the grades are {A: 100 to 90, B: 80 to 89, C: 60 to 79, D: 40 to 59, F: less than 40}. Write two programs in java for the grading process based on 1) if-else and 2) switch case statements. Finally mention the use cases of these two different conditioning statements.
- 1.2 Write a java code to demonstrate functionality of Constructor and Destructor. Mention the purpose and differences of these functions.
- 1.3 A programmer wants to run a loop for numbers between 1 to 100. In each iteration, he wants to print square of the loop value. Write codes in Java for this task using 3 different looping techniques: for loop, while loop and do-while loop. Discuss how do-while loop is different than others.
- 1.4 There are different types of musical instruments (wind, string, electronic, etc.) played in different ways. Explain how polymorphism can be achieved for this task using a sample code in Java.

2. Answer the question in detail

1 x 40 = 40 Marks

- 2.1 Describe the advantages of Exception handling. Explain the situations where these exceptions might arise in a Java code: `ArrayIndexOutOfBoundsException`, `FileNotFoundException`, `IOException`.
