

2019

MSc

2nd Semester Examination

OBJECT ORIENTED PROGRAMMING WITH JAVA

PAPER – COS-203(M2)

Full Marks : 25

Time : 2 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their
Own words as far as practicable.

Illustrate the answers wherever necessary.

Group-A

1. Answer any **TWO** questions: 2x2=4
- a) Why R is useful for data science?
 - b) How missing values and impossible values are represented?
 - c) What is object-oriented programming in R?
 - d) What is the difference between a data frame and a matrix?

Group-B

2. Answer any **TWO** questions: 4x2=8
- a) Explain different types of data structures in detail.
 - b) Discuss about different types of functions used for debugging.
 - c) Define a plot and explain at least two functions used for plotting.
 - d) Briefly explain profiling in R with the functions used for it.

Group-C

3. Answer any **ONE** question: 8x1
- a) i) Write down different types of loops used in R. 4+4
- ii) Discuss how break and next statements are used inside a loop.
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- b) i) What is an environment? What are the scoping rules in R? 2+2+4
- ii) Explain any four functions in the dplyr package used for data manipulations.

[Internal Assessment:5]