

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086
(For candidates admitted during the academic year 2019– 2020 and thereafter)
SUBJECT CODE: 19CS/PC/DA34

M.Sc. DEGREE EXAMINATION, NOVEMBER 2022
INFORMATION TECHNOLOGY
THIRD SEMESTER

COURSE : MAJOR CORE
PAPER : DATA ANALYTICS
TIME : 1 ½ Hours

MAX. MARKS: 50

SECTION – A

Answer all the following:

(5 * 2 = 10)

1. Distinguish between Prescriptive Analytics and Predictive Analytics.
2. List the different ways by which the data in Pandas objects can be combined.
3. Write a Python code to print the current date.
4. Distinguish between supervised learning and unsupervised learning.
5. Mention any two data stream sources.

SECTION – B

Answer any FOUR from the following:

(4 * 5 = 20)

6. Explain how data are stored and retrieved in binary format.
7. Illustrate Group Aggregation.
8. Explain the different types of resampling with examples.
9. Write short notes on random forest classification.
10. List and explain the different types of unsupervised learning.
11. Explain the usage of a Decaying window.

SECTION – C

Answer any TWO from the following:

(2 * 10 = 20)

12. Write short notes on Data Transformation.
13. Explain plotting functions in pandas.
14. Write short notes on the following:
 - (i) NoSQL
 - (ii) MapReduce.
