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10-12-30

DCBD403

Reg. No.

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IV Semester B.Com.(B.D.A) Degree Examination, July/August - 2024



COMMERCE

Data Science Life Cycle

(NEP Scheme)

Paper : BDA 4.3

Time : 2 ½ Hours

Maximum Marks : 60

*Instructions to Candidates:*

All answers should be written in English.

**SECTION - A**

Answer any Five sub-questions. Each sub-question carries 2 marks. (5×2=10)

1. a) Give the meaning of data science.
- b) Why visualization is important?
- c) What do you mean by Natural Language Processing?
- d) How does Hadoop Serialization Works?
- e) List down the types of machine learning.
- f) What are categorical variables?
- g) Name any two factors which influence the graphical perception.

**SECTION - B**

Answer any Four questions. Each question carries 5 marks. (4×5=20)

2. Summarize the history of data science.
3. Explain various types of charts used in visualization.
4. Identify the various stages in analysing the data with Hadoop.
5. Illustrate parametric and Non-Parametric algorithms.
6. Explain the various challenges of NLP in data science.

[P.T.O.]





**Answer any Two questions. Each question carries 12 marks.**

**(2×12=24)**

7. Critically evaluate the machine learning model.
8. Determine the various stages of data science life cycle. With example.
9. Define Heuristics. Explain the requirements of heuristics in high quality visualization.

**SECTION - D**

**Answer any One question. The question carries 6 marks.**

**(1×6=6)**

10. Construct the process of picture visualization for the end result with suitable examples.
  11. Analyze the Big Data Strategies of IBM.
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