



U7747

Reg. No.:

Name:.....



University of Kerala
 First Semester Degree Examination, November 2024
 Four Year Under Graduate Programme
 Discipline Specific Core Course
 Computer Science
UK1DSCCSC106 - DATA SCIENCE FUNDAMENTALS
 Academic Level: 100-199

Time: 1½ Hours**Max.Marks:42****Part A.**

Answer All Questions, Objective Type. 1 Mark Each.
(Cognitive Level: Remember/Understand)
6 Marks. Time: 6 Minutes

Qn. No	Question	Cognitive Level	Course Outcome (CO)
1	List the purpose of the RapidMiner tool	Remember	CO1
2	Define predictive analysis	Remember	CO1
3	List any 2 forms of data with examples.	Understand	CO2
4	Summarize the purpose of smoothing in one sentence.	Understand	CO2
5	Give the purpose of the trim function in the worksheet.	Understand	CO3
6	List the different charts used for data visualization.	Understand	CO4

Part B.

Answer All Questions , Short Answer. 2 Marks Each.
(Cognitive Level: Understand/Apply)
8 Marks. Time: 24 Minutes

Qn . No.	Question	Cognitive Level	Course Outcome (CO)
7.	Explain KDD with an example.	Understand	CO1
8.	Demonstrate the working of recommender systems with an example.	Understand	CO2
9.	Illustrate operations on dates in MS Excel with suitable examples.	Apply	CO3
10.	Compare the features of the Waterfall Chart and Pivot Charts	Apply	CO4

Part C.

Answer all 4 Questions, choosing among options within each question. Long Answer.

7 marks each (Cognitive Level: Apply/Analyse)

28 Marks. Time: 60 Minutes

Qn · No.	Question	Cogniti ve Level	Course Outcome (CO)
11.	a)With the help of a picture show different life cycle phases of data analytics. OR b)Demonstrate different data science tools and their application.	Apply	CO1
12.	a)Give an example of dimensionality reduction. Compare it with numerosity reduction. OR b)Analyze the significance of data integration in various real-world scenarios.	Analyze	CO2
13.	a)Illustrate the various sorting and filtering methods in MS Excel using suitable examples. OR b)Examine any five Excel date/time functions with syntax and examples.	Analyze	CO3
14.	a)Demonstrate the use of different LOOKUP functions. OR b)Demonstrate data visualization using different types of charts.	Apply	CO4