University of Kerala

U9038

Second Semester FYUGP Degree Examination, April 2025

Discipline Specific Core Course

COMPUTER APPLICATION

UK2DSCCAP104 - Introduction to Data Science

Academic Level: 100-199

Time: 1 Hour 30 Minutes(90 Mins.)   **Max. Marks: 42**

Part A. 6 Marks.Time:6 Minutes.(Cognitive Level:Remember(RE)/Understand(UN)) Objective Type. 1 Mark Each.Answer all questions

Qn No.	Question	CL	CO
1	Define DDL.	RE	1
2	State visual encoding	RE	4
3	Underline the main functions of GANTT chart	UN	4
4	Give two examples for Data Science Tools	UN	1
5	Identify the basic steps of data preprocessing	UN	2
6	Give an outline of subtotal function	UN	3

Part B.8 Marks.Time:24 Minutes.(Cognitive Level:Understand(UN)/Apply(AP))Short Answer. 2 marks each.Answer all questions

Qn No.	Question	CL	CO
7	Illustrate the concept of relation in SQL	UN	1
8	Describe the importance of data cleaning?	UN	2
9	Illustrate **COUNTIF** in Excel.	AP	3
10	Discover the role of data scientist in data analytics	AP	4

Part C. 28 Marks.Time:60 Minutes (Cognitive Level:Apply(AP)/Analyse(AN)/Evaluate(EV)/Create(CR)) Long Answer.7 marks each.Answer all 4 Questions choosing among options * within each question

Qn No.	Question	CL	CO
11	A) Demonstrate data discretization using an example OR B) Explain the factors for choosing appropriate visualization types for different datasets.	AP	2, 4
12	A) Data pre-processing is a crucial in machine learning.Discuss the importance of data pre-processing in machine learning. OR B) Compare the use of ranges and tables in Excel. Analyze the advantages of using a table over a range of data management.	AN	2, 3
13	A) Differentiate between Band chart and Thermometer chart OR B) Compare sorting and filtering in excel?	EV	4, 4
14	A) Prepare a procedure for creating worksheet with sales details and make pivot table category and product in row label	CR	3, 2

Qn No.	Question	CL	CO
	OR B) Criticize on the statement "Data integration is employed in various real-world scenarios".		