

Roll No.

Total No. of Pages : 02

Total No. of Questions : 07

B.Sc. (Data Analytic) (Sem.-3)
DATA WAREHOUSE AND MINING

Subject Code : UGCA-1931
M.Code : 92553

Date of Examination : 11-12-2023

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

- Write briefly :
 - Define Data Warehouse.
 - What is metadata?
 - Define Apriori Algorithm.
 - Define Data Cube.
 - What is Gini Index?
 - What is precision?
 - What is data visualization?
 - What are different challenges in clustering the data?
 - Let us suppose that there are 200 pages available on Internet for machine learning. The search on this term returns total 210 pages, out of which 190 belongs to Machine Learning, calculate precision and recall for our algorithm.
 - What is the significance of high false negative results?

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SECTION-B

- What is Data Mining? Explain the knowledge discovery process.
- The distance between some Indian cities is given below. Apply the clustering algorithm to make three clusters. Indicate intermediate steps.

	Bathinda	Patiala	Delhi	Amritsar	Mathura
Bathinda	0	190	400	250	460
Patiala	190	0	240	225	300
Delhi	400	240	0	450	60
Amritsar	250	225	450	0	510
Mathura	460	300	60	510	0

- What is OLAP? Explain its architecture, characteristics and multi dimensional view.
- How do we evaluate classifier's accuracy? Explain different techniques for accuracy estimation.
- What is classification? Explain decision tree induction by taking a suitable example.
- What are different approaches to build a data warehouse?



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B.Sc.(Data Analytic) (Sem.-3)
PROGRAMMING IN PYTHON
Subject Code : UGCA1914

M. Code : 92558

Date of Examination : 15-12-2023

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1. Write briefly :

- a) Define Function.
- b) What are operators? Give example.
- c) Define break points.
- d) Write syntax to create class in python.
- e) How single value can be assigned to multiple variables in single statement?
- f) What is the correct extension of the Python file?
- g) Define error handling.
- h) Syntax to print a statement.
- i) How do you declare a variable in Python?
- j) Who developed python language and when?

SECTION-B

2. What is a Python Module? Explain its significance in programming. How are Python modules created and how do you import and use them in a program? Provide examples.
3. Define debugging. What is the Python debugger (pdb)? How do you debug code using break points? Write a program to take input from user and print factorial of a number.
4. What is a conditional statement in Python and how is it used? Give an example of an if-statement that checks if a number is positive or negative.
5. What is a Python function? Explain its role and significance in programming. Explain with example the process of defining and calling a Python function.
6. Explain in detail different operations that can be applied on files in python. How can you create a new directory in Python? What is the difference between a method and a function?
7. What is a variable in Python and how is it declared and assigned a value? Explain with the help of an example.



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