

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, May 2021

Course: Data Warehousing and Multidimensional Modelling
Program: B.Tech- CS-BAO
Course Code: CSBA 3002

Semester: IV
Time: 03 hrs.
Max. Marks: 100

Instructions: all questions are compulsory

SECTION A

Each Questions carry 5 marks

S. No.	Write short notes on the following	CO
Q 1	Identify the different types of Data.	CO1
Q2	Differentiate between Subject oriented & Object oriented concepts.	CO1
Q3	Catalog the different transformation processes in the ETL.	CO2
Q4	Explain with diagram the concept of 3 Dimensional Data.	CO3
Q5	Identify at least 4 difference between fact and dimension?	CO2
Q6	Explain star schema.	CO3

SECTION B

Each Questions carry 10 marks

	All questions are compulsory	CO
Q7	Differentiate between OLAP & OLTP	CO3
Q8	Identify and explain the different architecture of Data Warehouse	CO2
Q9	Explain in detail the 3 tire architecture and identify its drawbacks	CO4
Q10	Explain in detail HOLAP and identify its pros and cons	CO4
Q 11	Differentiate between ROLAP & MOLAP	CO3

SECTION-C

Question carry 20 marks
Attempt only 1 Question between Q12 or Q13

	Any 1 question is to be attempted (Marks- [20])	CO
	You have been appointed as a technical consultant to help setup a Departmental Store in Dehradun. There are lots of parameters which needs to be identified and processed to make decisions in i)identification of Location, ii) identification of products, ii)) calculation of	

	profitability. Keeping in mind the above given scenario, please answer the following questions:	
Q 12	<ul style="list-style-type: none">i. Explain in detail the initialization of decision making process and identify a proper strategy in the above scenario.ii. What would be a good design of Data Warehouse under the above given facts?	CO5
Q13	<ul style="list-style-type: none">i. Identify and design 4 Star Schema and 4 Snowflake schema for the above case.ii. What would be your OLTP data model consideration?	CO5