


Name:			
Enrolment No:			
University of Petroleum and Energy Studies End Semester Examination, May 2023			
Course: Data Warehousing & Multidimensional Modeling Semester: 4th Program: BTech Course Code: CSBA2011		Time: 03 hrs. Max. Marks: 100	
Instructions: There are three sections. Attempt all questions.			
Q. No.	Question	Marks	CO
SECTION A			
1	Compare Roll up, Drill down, Slice and Dice operations	4	2
2	Discuss Dimension-Oriented Design techniques in an R-OLAP systems	4	3
3	Discuss cubing services performance and scalability.	4	2
4	Discuss various types of OLAP servers.	4	1
5	Explain the different components of a data warehouse architecture.	4	1
SECTION B			
6	How would you differentiate between warehousing model and online transaction processing model?	10	1
7	Describe the following: a) MOLAP characteristics b) Sparse and Dense Dimensions	10	4
8	Explain R-OLAP systems.	10	3
9	“A data warehouse can be modelled by either a star or a snowflake schema”. With relevant examples discuss the two types of schemas	10	2
SECTION-C			
10	Explain the need of requirement analysis in data warehousing	20	2
11	Explain in your own words the requirement of data warehousing.	20	1