

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2018

Programme Name: BTech CSE BAO

Semester : V

Course Name : Data Warehouse & Multidimensional Modeling

Time : 03 hrs

Course Code : CSIB 251

Max. Marks: 100

Nos. of page(s) :01

Instructions:

SECTION A

Note: All 5 questions are compulsory. Each question of Section A carries 4 marks.

S. No.		Marks	CO
Q 1	How are users of data warehouse classified?	4	CO3
Q 2	What type of processing takes place in a data warehouse?	4	CO1
Q 3	What are the critical features of OLTP systems?	4	CO2
Q 4	What do you mean by knowledge discovery process?	4	CO4
Q 5	What are the stages of data warehousing?	4	CO5

SECTION B

Note: Answer all the questions. Each question of section B carries 10 marks.

Q 6	What are different components of data warehouse? Explain with a neat diagram?	10	CO2
Q 7	What are the different reasons why traditional method of analysis provided in the data warehouse are not sufficient?	10	CO1
Q 8	Explain the following :- (i) MOLAP (ii)ROLAP (iii) HOLAP (iv) Fact & Dimension	10	CO5
Q 9	Differentiate between database and data warehouse Or Explain the three layer architecture of data warehouse in detail with suitable diagram.	10	CO3 CO4

SECTION-C

Note: Answer the questions. Each question of Section C carries 20 marks.

Q 10	State the kind of costs involved in implementing data marts, taking a scenario of IBM. Or Elaborate the phases involved in the data warehouse delivery process, with the help	20	CO1, CO2, CO3
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	of example.		
Q 11	Illustrate a case Study to identify successful factors for Data Warehouse Implementation and Adoption in resource planning.	20	CO4

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SECTION A

Note: All 5 questions are compulsory. Each question of Section A carries 4 marks.

S. No.		Marks	CO
Q 1	What are the Steps involved in data preprocessing?	4	CO2
Q 2	What is virtual data warehousing?	4	CO1
Q 3	What is the level of granularity of a fact table?	4	CO3
Q 4	Which one faster between Multidimensional OLAP and Relational OLAP? Explain with reason	4	CO4
Q 5	What do you mean by knowledge discovery process?	4	CO3

SECTION B

Note: Answer all the questions. Each question of section B carries 10 marks.

Q 6	What is the purpose of cluster analysis in data warehousing?	10	CO5
Q 7	Describe the operations in a data cube. Or What are the different reasons why traditional method of analysis provided in the data warehouse are not sufficient?	10	CO3
Q 8	How cubing services improves R-OLAP and M-OLAP performance?	10	CO4
Q 9	Explain the three layer architecture of data warehouse in detail with suitable diagram.	10	CO1 CO2

SECTION-C

Note: Answer the questions. Each question of Section C carries 20 marks.

Q 10	Illustrate how data cube can be efficiently constructed for discovery-driven analysis? Take an example and show the entire process, step by step. Or Design a scenario to identify the major requirement that play a key role in choosing a data warehouse modeling approach.	20	CO4, CO5
Q 11	Illustrate a case Study to identify successful factors for Data Warehouse Implementation and Adoption in business planning.	20	CO1, CO2