Paper / Subject Code: 61203 / Datawarehousing.

O. P. Code: 36138

$(2\frac{1}{2} \text{ hours})$

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D 12 0	prota	l Marks	VA 571

N.	B.:	(1)	All	auestions	are	compulsory

- (2) Make <u>suitable assumptions</u> wherever necessary and <u>state the assumptions</u> made.
- (3) Answers to the same question must be written together.
- (4) Numbers to the **right** indicate **marks**.
- (5) Draw **neat labeled diagrams** wherever **necessary**.
- (6) Use of Non-programmable calculators is allowed.

1. Attempt <u>any two</u> of the following:

10

- a. Differentiate between operational system & informational system.
- b. What is the role of metadata management layer and data integration layer in data warehouse architecture?
- c. Explain star schema with suitable diagram.
- d. What are additive, semi-additive and non-additive measures?

2. Attempt *any two* of the following:

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- a. With the help of a neat diagram, explain Oracle Warehouse Builder (OWB) architecture.
- b. Write the steps to create database using 'Database Configuration Assistant'.
- c. Explain the various recovery options available in recovery configuration dialog box of database creation wizard
- d. Write the steps to import metadata from oracle database tables.

3. Attempt any two of the following:

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- a. Why dimensional model is more suitable than normalized model of database for data warehouse design?
- b. What is module? Explain source module and target module.
- c. List and explain the steps for creating dimension with a dimension wizard.
- d. Explain various properties of dimension.

4. Attempt <u>any two</u> of the following:

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- a. What are the considerations we can take into account when deciding whether to use staging area or nor for our source data?
- b. Enlist and explain various windows available in mapping editor.
- c. Explain the following OWB operators
 - (i) Table operator
 - (ii) Constant operator
- d. Write the steps to connect source to target using joiner operator with suitable example.

5. Attempt *any two* of the following:

10

- a. What is validation? Difference between validation from the data object editor and validation from the mapping editor
- b. Write the steps to add Key Lookup operator.
- c. Explain the use of external table operator with suitable example.
- d. Write a short note on object details window.

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6.	Attempt	t <u>any two</u> of the following:	× 5010						
a.	Write a short note on metadata change management.								
b.	What is snapshot? Write the steps to take a snapshot of a table.								
c.	Explain data sparsity and data explosion.								
d.	Explain multidimensional database architecture with suitable diagram.								
7.	Attempt	t <u>any three</u> of the following:	15						
a.	What is listener? Write the procedure to create a new listener								
b.	What are the factors needed to be considered while designing data warehouse?								
c.	List and	explain the steps for creating a cube with using wizard.	X 6 25 25						
d.	Write the	e steps for building staging area table using data object editor.							
e.		SUBSTR function of transformation operator.	200						
f.	Write sh	nort notes on	50,						
	(i)	Parallelization	39 ^V						
	(ii)	DSS Index.							