



**DHARMSINH DESAI UNIVERSITY, NADIAD**  
**FACULTY OF TECHNOLOGY**  
**B.TECH. SEMESTER V [I.T]**

**SUBJECT: (IT-704) Data Analysis & Information Extraction**

**Examination** : First Sessional  
(Written Exam)

**Seat No.** : \_\_\_\_\_

**Date** : 05/08/2021

**Day** : Thursday

**Duration** : 45 minutes

**Max. Marks** : 16

**INSTRUCTIONS:**

1. Figures to the right indicate maximum marks for that question.
2. The symbols used carry their usual meanings.
3. Assume suitable data, if required & mention them clearly.
4. Draw neat sketches wherever necessary.

<b>Q.2</b>	Attempt <i>Any Two</i> from the following questions.	<b>[8]</b>
	(a) Explain KDD process with proper diagram.	<b>[4]</b>
	(b) Explain Wavelet & principal component analysis in brief.	<b>[4]</b>
	(c) Perform AOI (Attribute Oriented Analysis) on D-mart Customer Data Table. (Assume suitable customer table & mention properly)	<b>[4]</b>
<b>Q.3</b>	For Point of Sell (POS) System Company wants to do data analysis.	
	a) Identify dimensions and fact table.	<b>[2]</b>
	b) Draw star schema diagram with proper measures.	<b>[3]</b>
	c) Design Data CUBE and show roll-up & pivot operation on it.	<b>[3]</b>
<b>OR</b>		
<b>Q.3</b>	Govt. Income Tax System wants to do data analysis.	
	d) Identify dimensions and fact table.	<b>[2]</b>
	e) Draw star schema diagram with proper measures.	<b>[3]</b>
	f) Design Data CUBE and show roll-up & pivot operation on it.	<b>[3]</b>