				Re	g. No.											
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			Question Paper	·Code	1	220	3									
	B.E. / B.Tech DEGREE EXAMINATIONS, NOV / DEC 2023															
Seventh Semester																
Artificial Intelligence and Data Science																
	20AIEL720 - BUSINESS INTELLIGENCE															
	(Regulations 2020)															
Dur	ation	: 3 Hours								Ma	x. M	ark	s: 10	00		
$PART - A (10 \times 2 = 20 Marks)$																
			Answe	r ALL (	Juestion	15							Ma	rks		
1.	Def	fine CRM.										1	K-Lev	e <b>l, CO</b> ,CO1		
2.	What are the steps in Data Cleaning?									2,K3,CO1						
3.		-		0									2,K2,CO2			
4.	Define simple linear Regression. Give the formula for Conditional probability.								2,K2,CO2							
5.	What is Geo-Spatial Visualization?									2,K2,CO3						
6.	What are the special features of Qlikview?								2,K2,CO3							
7.	What are the common pitfalls in dashboard design?								2,K2,CO4							
8.	Define KPI.									2,K1,CO4						
9.	What is clustering?									2,K1,CO5						
10.	What is the use of BI search interface?									2,K2,	,CO5					
PART - B (5 × 13 = 65 Marks)																
				r ALL Q			<i></i>									
11.	a) (i) Explain logical flow of a problem solving process.								7,K3,CO1							
		(ii) Describe	the structure of D	OSS with	n diagra	m.							6,K2,	,CO1		
OR																
	b)	How CRM a BI?	and BI are driving	g moder	n mark	eting	g? Ho	ow	CR	М са	an us	se	13,K2	2,CO1		
12.	a)	(i) What is c	ver fitting and list	t the imp	pact of o	over	fittir	ıg?					7,K3,	,CO2		
		(ii) Explain	Linear Regression	ı.									6,K2,CO2			
OR																
	b)	Explain the	life cycle of data s	science i	n detail	l.							13,K2	2,CO2		
13.	a)	How to crea	te a Scatter or bub	oble chai OR	rt in Po	wer ]	BI?						13,K2	2,CO3		
K1 –	Reme	ember; K2 – Und	lerstand; K3 – Apply;	: K4 – An	alyze; K5	5 - Ev	valuat	e; K	6 – 0	Creat	е	1	220.	3		

	b)	(i) Explain data profiling with an example.	7,K3,CO3		
		(ii) Describe the ETL process with a neat sketch.	6,K2,CO3		
14.	a)	(i) Demonstrate the basic use cases for dashboard actions.	7,K3,CO4		
		(ii) How to download a report in PDF format?	6,K3,CO4		
		OR			
	b)	Explain how Sales KPI dashboard and CTO dashboard created.	13,K3,CO4		
15.	a)	Explain how to visualize the data in sales analysis. Illustrate with chart.	13,K3,CO5		
		OR			
	b)	List the advanced visualization tools and its advantages.	13,K3,CO5		
		PART - C (1 × 15 = 15 Marks)			

16. a) Describe the rich report with an example and analyses the report. 15, K3, CO6

## OR

b) Describe the case study and real world examples of how business <sup>15,K3,CO6</sup> intelligence keeps top companies competitive.