

Name:	 UPES UNIVERSITY WITH A PURPOSE
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
School of Computer Science

End Semester Examination, December 2021

Course : Data Analytics for IoT	Semester : VII
Program : B.Tech CSE (ECRA/BAO/AIML/CCVT)	Time : 03 Hours
Course Code : CSBA4015P	Max. Marks : 100

SECTION A

SECTION A		Marks	
Each Question will carry 04 Marks (Explain short answers between 50-60 words)			
Q1	Explain the impact of Internet of Things on Analytics.	04	CO1
Q2	Describe the benefits of BI.	04	CO4
Q3	What are the five key area's of BI strategy.	04	CO1
Q4	Explain the centralized architecture with decentralized architecture for BI.	04	CO4
Q5	Explain the barriers and benefits of big data analytics.	02 + 02	CO2

SECTION B

SECTION B

1. Each question will carry 10 marks

2. Instruction: Write short / brief notes (Explain short notes between 150-200 words)

Q7	Describe Analytics and state the different types of Analytics.	10	CO2
Q8	Explain the following: a. Data Warehouse b. ETL c. OLAP	4+3+3	CO1
Q9	Explain the OLAP server architectures	10	CO3
Q10	Discuss the use of click stream analysis for e-commerce websites.	10	CO3
OR			
P.T.O.			

	Analyze the following in context to Real Time analytics: 1. Relational OLAP 2. Hybrid OLAP 3. Multidimensional OLAP 4. OLAP operations	(2.5*4)	
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SECTION C

SECTION C

1. Each Question carries 10 Marks. 10*2=20

2. Instruction: Write long answer. (Explain long answers up to 350 words)

Q8	Design and explain the integration of devices on Cloud for analytics. (Design, develop, Implement)	20	CO4
Q9	Design a workflow for data visualization for a mart selling fruits and vegetables. <p style="text-align: center;">OR</p> Design the tasks of BI lifecycle for implementation in traffic management in Dehradun city.	20	CO3