

<b>Name:</b>	 <b>UPES</b> <small>UNIVERSITY WITH A PURPOSE</small>
<b>Enrolment No:</b>	

**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**  
**Online End Semester Examination, Dec 2020**

<b>Course: Descriptive Analytics for IOT</b> <b>Program: B. Tech. IOT</b> <b>Course Code: CSIS4002</b>	<b>Semester: VII</b> <b>Time 03 hrs.</b> <b>Max. Marks: 100</b>
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**SECTION A**

- 1. Each Question will carry 5 Marks**
- 2. Instruction: Complete the statement / Select the correct answer(s)**

S. No.	Question	CO
Q 1	The shape of the BI solution is driven by the key decision whether to build a _____ architecture system. a) centralized b) decentralized c) both a and b d) None of the above	<b>CO2</b>
Q2	Descriptive analytics describes the use of a range of historic data to draw ..... a) problems b) comparison c) Either a or b d) None of the above	<b>CO2</b>
Q3	..... is a type of database that has been updated to Data Warehouse applications and OLAP. a) Relational database b) Semi structured data from file server c) Multidimensional Database d) NoSQL database	<b>CO3</b>
Q4	A crossed table is a common frequency distribution of cases based on two or more categories. a) True b) False	<b>CO3</b>
Q5	In Bigdata among 3V's, Velocity is about managing the complexity of multiple data types, including structured, semi-structured and unstructured data. a) True b) False	<b>CO4</b>
Q6	Which of the following is not a component of a data warehouse? a) Data extraction/cleaning/preparation programs b) Data metadata c) Data warehouse data d) None of the above	<b>CO1</b>

**SECTION B**

- 1. Each question will carry 10 marks**
- 2. Instruction: Write short / brief notes**

Q 7	Discuss analytics and explain different types of analytics? Discuss OLAP?	<b>CO1</b>
Q 8	Explain the immutable laws of data mart development in detail? Discuss on measures and dimensions of a data cube?	<b>CO3</b>
Q 9	Explain the concept of IoT data lifecycle management in detail?	<b>CO2</b>
Q 10	Discuss on 5 key areas of BI strategy?	<b>CO3</b>
Q 11	Discuss on dashboards, their categories and design rules/principles? OR Discuss on BI benefits and how do you maximize value from BI systems?	<b>CO4</b>

**SECTION C**

- 1. Each Question carries 20 Marks.**
- 2. Instruction: Write long answer.**

Q12	Explain the use case of Bigdata platform in detail? Discuss on benefits and barriers of Bigdata analytics Or Discuss on various OLAP server architectures and different OLAP operations in detail?	<b>CO4</b>