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| Name: |  UPES UNIVERSITY WITH A PURPOSE |
| Enrolment No: | |

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

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| Course: Descriptive Analytics for IOT Program: B. Tech. IOT Course Code: CSIS4002 | Semester: VII Time 03 hrs. Max. Marks: 100 |
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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 |
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| 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 | CO2 |
| 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 | CO2 |
| 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 | CO3 |
| Q4 | A crossed table is a common frequency distribution of cases based on two or more categories. a) True b) False | CO3 |
| 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 | CO4 |
| 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 | CO1 |

SECTION B

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

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| Q 7 | Discuss analytics and explain different types of analytics? Discuss OLAP? | CO1 |
| Q 8 | Explain the immutable laws of data mart development in detail? Discuss on measures and dimensions of a data cube? | CO3 |
| Q 9 | Explain the concept of IoT data lifecycle management in detail? | CO2 |
| Q 10 | Discuss on 5 key areas of BI strategy? | CO3 |
| 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? | CO4 |

SECTION C

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

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| 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? | CO4 |
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