


| Name: | |  | |
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| Enrolment No: | | | |
| UPES End Semester Examination, December 2023 | | | |
| Course: Descriptive Analytics for IOT Program: BT-CSE-SPZ-IOT and IOT(H) Course Code: CSIS 3010 | | Semester: V Time : 03 hrs. Max. Marks: 100 | |
| Instructions: All Questions are compulsory. Explain with diagram where possible. | | | |
| SECTION A (5Qx4M=20Marks) | | | |
| S. No. | | Marks | CO |
| Q 1 | Discuss, how prescriptive analytics is different from predictive analytics? Give examples. | 4 | CO1 |
| Q 2 | Describe the five key areas of strategy. | 4 | CO1 |
| Q 3 | Draw and explain the main components of BI architecture. | 4 | CO1 |
| Q 4 | Discuss the different types of dashboard design in analytics. | 4 | CO4 |
| Q 5 | Describe, how centralized architecture is different from de-centralized architecture. | 4 | CO2 |
| SECTION B (4Qx10M= 40 Marks) | | | |
| Q 6 | Describe the sequence of activities for preparing a project plan. | 10 | CO3 |
| Q 7 | Discuss the different adoption structures for Bigdata analysis? Also list the two amendments that are required to bring Bigdata and Cloud together. | 10 | CO3 |
| Q 8 | Describe the concept of IoT data lifecycle management in detail. | 10 | CO2 |
| Q 9 | List the OLAP server architectures. Describe the typical OLAP operations with an example. OR Explain the various types of reports along with their applicability in detail. | 10 | CO3 |
| SECTION-C (2Qx20M=40 Marks) | | | |
| Q 10 | Briefly describe Multidimensional database. Explain the conceptual modeling of data warehouses in detail. | 20 | CO4 |
| Q 11 | Explain any 2 data visualization and analytics tools in terms of functionalities, working, advantages, disadvantages, etc. OR Describe the followings: | 20 | CO4 |

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| | <ul style="list-style-type: none">a. Laws of datamart development.b. Phases of ETL.c. 4 V's of Bigdatad. Harrah's case study. | | |
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