

Total No. of Questions – [06]

G.R. No

Total No. of Printed Pages: 1

Paper Code:

V482-252C(FSE)

**MAY 2022 – END SEM EXAM**  
**B. TECH. (INFORMATION TECHNOLOGY) (SEMESTER - II)**  
**COURSE NAME: PROFESSIONAL ELECTIVE –II**  
**(DATA ANALYTICS AND SCIENCE)**  
**COURSE CODE: ITUA40182C**  
**(PATTERN 2018)**

**Time: [1Hour]**

**[Max. Marks: 30]**

**Instructions to candidates:**

- 1) Answer Q.1 OR Q.2, Q.3 OR Q.4, Q.5 OR Q.6.
- 2) Figures to the right indicate full marks.
- 3) Use of scientific calculator is allowed
- 4) Use suitable data where ever required

Q.1 a Analyse the Decision Tree Algorithm [4]

Q.1 b Construct and Explain with one example how decision tree is constructed using ID3 algorithm? [6]

**OR**

Q.2 a Analyse the Naive Bays Classifier [4]

Q.2 b Construct and explain how Naive Baye's classification works? Give its applications. [6]

Q.3 a Differentiate different data visualization technique [4]

Q.3 b Compare different data visualization technique [6]

**OR**

Q.4 a Compare different types of Conventional data visualization tools [4]

Q.4 b Compare analytical techniques used in Big data visualization [6]

Q.5 a Discuss Analytics for unstructured data [4]

Q.5 b Elaborate the role of Job and Task tracker in the execution and processing of job within Hadoop environment. [6]

**OR**

Q.6 a Discuss Hadoop Ecosystem in detail. [4]

Q.6 b Elaborate on role of Sorter, Shuffler and Combiner in Map reduces Paradigm? [6]