Total No. of Questions – [06]   Total No. of Printed Pages: 1

G.R. No.	

DECEMBER 2021 - ENDSEM EXAM
B. TECH. (IT) (SEMESTER - I)
COURSE NAME: PROFESSTIONAL ELECTIVE –II
DATA ANALYTICS AND SCIENCE
COURSE CODE: ITUA40182C
(PATTERN 2018)

Time: [1 Hour]   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	Comment on diagnosis of Decision Tree Algorithm	[4]
Q.1 b	Contract and Explain with one example how decision tree is constructed using ID3 algorithm?	[6]

OR

Q2 a	Comment on diagnosis of Naive Bays Classifier	[4]
Q2 b	Construct and explain how Naive Baye's classification works? Give its applications.	[6]

Q.3 a	Elaborate need of data visualization	[4]
Q.3 b	Discuss the challenges in Big data visualization?	[6]

OR

Q.4 a	Compare different types of data visualization.	[4]
Q.4 b	Explain and analyze analytical techniques used in Big data visualization	[6]

Q.5 a	Summarize HDFS Read & Write operations.	[4]
Q.5 b	Write Short note the role of Job and Task tracker in the execution and processing of job within Hadoop environment, with architecture.	[6]

OR

Q.6 a	Summarize Hadoop Ecosystem in detail	[4]
Q.6 b	Write short note on role of Sorter, Shuffler and Combiner in Map reduces Paradigm?	[6]