VII SEMESTER B.TECH. (IT/CCE)

END SEM EXAMINATIONS, DECEMBER 2021

SUBJECT: AVANCED DATA SCIENCE [CRA 4062]

REVISED CREDIT SYSTEM (27/12/2021)

PART B

Time: 75 Minutes MAX. MARKS: 20

Instructions to Candidates:

- ❖ Answer **ALL** the questions.
- ❖ Missing data, if any, may be suitably assumed.

1A.	Demonstrate the use of model-based prediction approach and the models that	5
	leverage the same approach with suitable R commands.	•
1B.	Consider the following graph in which positive symbol indicates correct classification and negative indicates wrong classification. Calculate misclassification error, gini index and information gain.	3
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	+ + + +	
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1C.	Write the equation to compute penalized residual sum of squares term for LASSO regression.	2
2A.	Develop a shiny web application which creates the slider and display the slider values in the UI. The slider must accepts the user inputs and the server must return the values.	5
2B.	What is swirl? Explain how it is used for creating a course and a new lesson. List the files that are produced while generating the new course.	3
2C.	Explain the benefit of using leaflet? Construct a map and insert markers into the map using leaflet.	2

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