Code No: 5658AZ

R19

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD M. Tech II Semester Examinations, July/August – 2021 DATA SCIENCE

(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 75

## Answer any five questions All questions carry equal marks

1.a) b)	Differentiate Structured, semi-structured and unstructured data with examples Give a brief summary on any two applications of data science.	s. [7+8]
2.	Explain Data Science toolkit and its components.	[15]
3.	Explain the following of statistical measures with suitable example. a) Measures of central tendency	
4.	b) Measures of distribution c) Skewness and kurtosis.  Explain about data storage and management in detail.	[5+5+5]
5.	Define regression and explain about linear regression and apply linear regressingiven data below: $(x,y) = \{(1,2),(2,4),(3,5),(4,6),(7,8)\}$	ion on the
6.a) b)	What is classification? How is different from clustering? Illustrate with an example the SVM classification.	[7+8]
7.	Explain the following: a) Retinal variables b) Data Visualization	[7+8]
8.a) b)	How do you use Bokeh in Python for Data Visualization? Explain recent trends in data science.	[8+7]