

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATIONS SP/2025)

CLASS: BCA
BRANCH: BCA

SEMESTER : IV
SESSION : SP/2025

SUBJECT: CN227 INTRODUCTION TO DATA SCIENCE

TIME: 02 Hours

FULL MARKS: 25

INSTRUCTIONS:

1. The question paper contains 5 questions each of 5 marks and total 25 marks.
2. Attempt all questions.
3. The missing data, if any, may be assumed suitably.
4. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates

		CO	BL				
Q.1(a)	Define the role of data science in Healthcare and search engine.	[2] I	V				
Q.1(b)	Explain facets of data in brief.	[3] I	II				
Q.2(a)	Differentiate big data and data science.	[2] I	IV				
Q.2(b)	Explain the data science process in brief.	[3] I	II				
Q.3(a)	Define time series data with example.	[2] I	V				
Q.3(b)	Explain different types of data used in data science.	[3] I	II				
Q.4(a)	Define spatial data with example.	[2] II	V				
Q.4(b)	Explain different steps of data pre-processing in brief.	[3] II	II				
Q.5(a)	Define descriptive statistics and its types.	[2] III	V				
Q.5(b)	Calculate the standard deviation of continuous grouped data as shown below:	[3] III	III				
	Class	0 - 10	10 - 20	20 - 30	30 - 40		
	Frequency(f_i)	2	4	2	2		

::::::03/03/2025::::::E