[Total No. of CO	otal No. of CO's 05] Seat No: [Total No				. of Pages: -02]		
	(An Autonomo F.Y	aisoni College of Engous Institution affilia B. Tech/ (Branch A) ESE Winter 2020.	ted to Savitribai Pl (T) (Term-I) (2020)	agement, Pune. nule , Pune Univ Pattern)	·		
[Time: 2 Ho	[Time: 2 Hours] [ Max						
CO2: Ana CO3: Appl CO4: Appl	lyze the dataset and p lyze the dataset and p ly linear regression o	ion on the given datase	Statistics				
<ul> <li>2) All questions</li> <li>3) Neat diagram</li> <li>4) Figures to th</li> <li>5) Assume suite</li> </ul>	O)at the beginnin	marks.	ion indicates the cou	rse outcome relate	d to the qu	iestion.	
CO Sub Question					Marks	BL	
CO1 a)	Is data analysis and data analytics are same concept?  Justify your answer.				[3]	L4 L4	
CO1 b)	Compare correl	ation Verses covaria	ince.		[4]	L4	
CO1 c)	CO1 c)  Price table of branded ball pen's is shown here;				[3]	L4	
	Sr.No.	Ball Pen Brand	Price (Rs)				
	1	Classmate	12				
	2	Reynolds	15				
	3	Cello	18				
	4	Techno tip	15				
	5	Pilot	20				
	Calculate centra measures.	al (avg) price of a ba	allpen using Centra	al tendency			
CO1 d)	Compare and co	ontrast qualitative da	ata verses quantita	tive data	[4]	L4	
CO1 e)		eristics of Standard		aro data.	[3]	L4	
CO2 a)	Describe the protypes of distribu	operties of Normal I utions.	Distribution Curve	and List the	[5]	L4	

CO2 c) In a sample of 400 selected at random, a sample mean of 50 was

of 100 students will be taller than 1.60 m?

The height of students studying at a Engineering college follows a

normal distribution with a mean of 1.62 m and a standard deviation of 0.12. What is the probability that the mean of a random sample

CO2 b)

[3]

[3]

L4

L4

obtained. Determine the confidence interval with a confidence level of 97% for the average population.

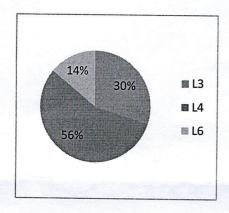
	CO3	a)	Relate the terms sum of squares total (SST), sum of squares due	[5]	L3
	CO3	<i>b)</i>	to regression (SSR) and sum of squares error (SSE) with mathematical expression. What is P-Value? How do you interpret it?	[4]	L3
	CO4	a)	What is logistic regression?	[3]	L3
	CO4	<i>b</i> )	Illustrate the range properties of logistic regression functions.	[3]	L3
	CO5	a)	Elaborate various graphical ways of data representation.	[2]	L6
CO	CO5	<i>b</i> )	The number of hours spent by a school student on various activities on a working day, is given below.	[3] [4]	L6

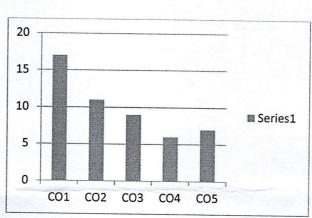
Construct a pie chart using the angle measurement.

Activity	Sleep	School	Play	Homework	Others
Number of Hours	8	6	3	3	4

So on.....

## NOTE:





 BL – Bloom's Taxonomy Levels (1- Remembering, 2- Understanding, 3 – Applying, 4 – Analysing, 5 – Evaluating, 6 - Creating).