

**Dept. of Mathematics &
Statistics**

**Maths Certificate Course
Business Statistics**



Sri Y N College

(Autonomous)

(Affiliated to Adikavi Nannaya University, Rajamahendravaram)

Thrice Accredited by NAAC with 'A' Grade

Narsapur – 534275, West Godavari District, Andhra Pradesh



SRI Y.N.COLLEGE(Autonomous),Narsapur
Affiliated to Aadikavi Nannaya University
Accredited by NAAC with 'A' Grade with a CGPA of 3.40
Recognized by UGC as 'College with potential for Excellence'
Mathematics Certificate Course
Business Statistics (w.e.f.2017-18)

The objective of this paper is to impart knowledge on the application of statistical tools and techniques in business decision-making & use of MS-Excel in interpretation of statistical data.

Unit-I: Introduction to Statistics:

Meaning , definition, importance and limitations of statistics. Collection of data – Primary data and Secondary data – (Sampling – Random – Non Random – Census) – Schedule and questionnaire – Frequency distribution – Tabulation.

Unit-II: Measures of Central Tendency:

Definition, Objectives and Characteristics of measures of Central Tendency – Types of Averages – Arithmetic Mean, Geometric Mean, Harmonic Mean, Median, Mode, Deciles, Percentiles, properties of averages and their applications. Calculation of averages using computers.

Unit-III: Measures of Dispersion:

Meaning, Definitions, Properties of dispersion – Range – Quartile Deviation – Mean Deviation – Standard Deviation, Coefficient of Variation.




CHAIRMAN
BOARD OF STUDIES
Department of Mathematics & Statistics
SRI Y.N. COLLEGE (AUTONOMOUS)
NAAC ACCREDITED 'A' GRADE COLLEGE
NARSAPUR - 534 275

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Mathematics Certificate Course
Business Statistics Model Paper (w.e.f.2017-18)

Time: 2Hrs

SECTION-I

Total Marks:50M

Answer any TWO of the following questions

2 x 10 = 20M

1. Compute Standard Deviation from the following data

Classes	40-50	50-60	60-70	70-80	80-90	90-100
Frequencies	10	15	25	35	8	7

2. By using the following information show that $AM > GM > HM$

Classes	0-5	5-10	10-15	15-20	20-25	25-30
Frequencies	2	8	10	15	12	3

3. Calculate Mode using Mean and Median

Classes	10-20	20-30	30-40	40-50	50-60	60-70	70-80
Frequencies	4	6	20	32	33	17	10

4. Find out the Geometric mean and Harmonic mean from the following data

Classes	100-120	120-140	140-160	160-180	180-200	200-220	220-240	240-260
Frequencies	2	4	6	9	8	6	4	1

SECTION-II

Answer any FIVE of the following questions.

5 x 4 = 20M

5. Define Statistics and give characteristic features of statistics.

6. What are the sources of the secondary data.

7. What is an Average? What are the qualities of a good average?

8. State the parts of table?

9. Find out Harmonic mean for the following values

60, 120, 150, 240, 300, 450

10. The total two quartiles is 40 and their difference is 1. Find the quartile deviation and its Co efficient.

11. From the following data of the marks obtained by 60 students of a class, calculate the arithmetic mean

Marks	20	30	40	50	60	70
No. of students	8	12	20	10	6	4

12. Calculate mean deviation and its coefficient for the series 6, 10, 26, 28, 30, 32, 35.


SECTION-III

Answer **ALL** of the following questions.

5 x 2 = 10M

13. Define the range.
14. Define the range coefficient.
15. Write the merits of arithmetic mean.
16. Define the relation between arithmetic mean, median, mode.
17. Define the relation between arithmetic mean, geometric mean, harmonic mean.




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NAME OF THE INSTITUTE

I.M.P.C (T.M)

PUPIL'S ATTENDANCE REGISTER

S.No.	Admission No.	Name of the Pupil	10	13	17	20	23	27	31	3	7	11	14	18	22	25	28	31	10
			12-12	19-12	24-12	27-12	30-12	01-01	05-01	08-01	11-01	15-01	18-01	21-01	24-01	27-01	30-01	02-02	05-02
1.		V. Indu	a	a	/	a	/	a	/	/	/	/	/	/	/	/	/	/	/
2.		T.S. Mahalakshmi	/	a	a	a	X	/	/	/	/	/	/	/	/	/	/	/	/
3.		J. Devika	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/
4.		B. Aswini	/	/	/	/	a	a	a	a	/	/	/	/	/	/	/	/	/
5.		A. Nagamalli	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
6.		B.L. Namasimha	a	a	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/
7.		V. S. Venuvarma	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
8.		S. Pavani	/	/	/	/	/	a	/	/	a	X	/	/	/	/	/	/	/
9.		A. Jagadish	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
10.		M.J.L. Deepika	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11.		A. Narendra	a	/	/	/	/	a	/	/	/	/	a	/	/	/	/	/	/
12.		M. Lakshmana Rao	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
13.		S. Sudhreeq	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14.		A. Natesh	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
15.		T.M.N.D. Prasad	a	a	a	a	/	/	a	/	a	/	/	/	/	/	/	/	/
16.		K. Vijaya Varma	/	a	a	a	/	/	a	/	a	/	a	a	a	a	a	a	a
17.		T. Satish	a	a	a	a	/	/	a	/	/	a	/	/	a	/	/	a	/
18.		A. Hema sai	a	a	a	a	/	/	a	/	/	a	/	/	a	/	/	a	/
19.		K. Divakar	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
20.		B. peddi raju	a	a	/	a	a	/	a	/	a	/	/	/	/	/	/	/	/
21.		K. prasanth	a	a	a	a	/	/	a	/	a	/	a	/	a	/	a	/	a
22.		P. Jaga deesh	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
23.		T.K.K. Raju	a	a	/	a	/	/	a	/	/	/	a	/	a	/	a	/	a



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పేరు.....		Pupils Attendance Register														
సంవత్సరము		T. MScS(A5)														
1	2	3	4	5							8	9	10	11	12	13
అడ్మిషన్ నెం.	పే.	పేరు	కులము	1	2	3	4	5	6	7	8	9	10	11	12	13
	9	D. Harshitha		/	/	/	/	/	/	/						
	3	M. Y. pranath		/	/	/	/	/	/	/						
	4	K. V. G. rajeshwari		/	/	/	/	/	/	/						
	5	D. vijaya Lakshmi		/	/	/	/	/	/	/						
	6	D. V. Sai Durga		/	/	/	/	/	/	/						
	7	S. Kalyani		/	/	/	/	/	/	/						
	8	T. Asitina kumari		/	/	/	/	/	/	/						
	9	A. Mounika		/	/	/	/	/	/	/						
	10	V. Abhinaya		/	/	/	/	/	/	/						
	11	K. Swathi		/	/	/	/	/	/	/						
	12	M. U. V. Durga		/	/	/	/	/	/	/						
	13	K. T. Durga		/	/	/	/	/	/	/						
	14	T. Rathakavi		/	/	/	/	/	/	/						
	15	A. Y. Manikanta		/	/	/	/	/	/	/						
	16	K. Siva Krishna		/	/	/	/	/	/	/						
	17	G. Pavan Kumar		/	/	/	/	/	/	/						
	18	K. Mani Krishna		/	/	/	/	/	/	/						
	19	M. Bhanu prakash		/	/	/	/	/	/	/						
	21	A. John Sandeep		/	/	/	/	/	/	/						
	22	G. T. K. M. K. Satish naidu		/	/	/	/	/	/	/						
	23	G. V. Murali Krishna		/	/	/	/	/	/	/						
	24	N. V. Naga Kumar		/	/	/	/	/	/	/						
	25	S. Rajesh Kumar		/	/	/	/	/	/	/						
	26	T. Rama Krishna		/	/	/	/	/	/	/						
	27	B. Moses		/	/	/	/	/	/	/						
	28	V. Lokesh		/	/	/	/	/	/	/						
	29	Ch. Ravi Varma		/	/	/	/	/	/	/						
	30	S. U. N. Kumar		/	/	/	/	/	/	/						
	31	M. M. Siva Sankar		/	/	/	/	/	/	/						
	32	P. Y. Balaji		/	/	/	/	/	/	/						
	33	V. V. Pavan		/	/	/	/	/	/	/						
	34	R. Siva Sai		/	/	/	/	/	/	/						

పేరు.....		పిల్లల హాజరు పట్టి																														
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	9	D. Harshitha		/	/	/	/	/	/	/																						
	3	M. Y. pranath		/	/	/	/	/	/	/																						
	4	K. V. G. rajeshwari		/	/	/	/	/	/	/																						
	5	D. vijaya Lakshmi		/	/	/	/	/	/	/																						
	6	D. V. Sai Durga		/	/	/	/	/	/	/																						
	7	S. Kalyani		/	/	/	/	/	/	/																						
	8	T. Asitina kumari		/	/	/	/	/	/	/																						
	9	A. Mounika		/	/	/	/	/	/	/																						
	10	V. Abhinaya		/	/	/	/	/	/	/																						
	11	K. Swathi		/	/	/	/	/	/	/																						
	12	M. U. V. Durga		/	/	/	/	/	/	/																						
	13	K. T. Durga		/	/	/	/	/	/	/																						
	14	T. Rathakavi		/	/	/	/	/	/	/																						
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	27	B. Moses		/	/	/	/	/	/	/																						
	28	V. Lokesh		/	/	/	/	/	/	/																						
	29	Ch. Ravi Varma		/	/	/	/	/	/	/																						
	30	S. U. N. Kumar		/	/	/	/	/	/	/																						
	31	M. M. Siva Sankar		/	/	/	/	/	/	/																						
	32	P. Y. Balaji		/	/	/	/	/	/	/																						
	33	V. V. Pavan		/	/	/	/	/	/	/																						
	34	R. Siva Sai		/	/	/	/	/	/	/																						



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నెం..... నెం.వల్లనం.....																
1	2	3	4		5											
క్రమ సం.	పేరు	పేరు	మొత్తం	1	2	3	4	5	6	7	8	9	10	11	12	13
35	T. Nagesai			1	0	1	1	0	1	0	1					
36	K. Sai Subrahmanyam			1	0	1	1	1	0	1						
37	P. Chinna			0	1	1	0	1	1	0	1					
38	K. Abinash			1	1	1	1	1	1	1						
39	V. G. M. D. Prasanth			1	0	1	1	0	1	1						
41	A. Harika			1	1	0	1	0	1	1						
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పిల్లల హాజరు పట్టిక																																				
రోజుల సంఖ్య.....																																				
సగటు హాజరు.....																																				
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																															పోయిన		వారసులు		పేరు	
14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31																			
1	0	1	1	1	0	1	1	1	0	1	1	0	1	1	0	1	1																			
1	1	1	1	0	1	1	1	1	0	1	1	0	1	1	0	1	1																			
0	1	0	1	1	1	1	1	1	0	1	1	0	1	1	0	1	1																			
1	0	1	1	0	1	1	1	1	0	1	1	0	1	1	0	1	1																			
1	1	0	1	1	1	1	1	1	0	1	1	0	1	1	0	1	1																			
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T.M.P.C (EM)		వారం నాళ్లు పేరులు	
Sl. No.	Pupil Name	May	June
Sl. No.	Pupil Name	July	Aug
1	M. Ramya	1/1/1	1/1/1
2	K. Sailaja	1/1/1	1/1/1
3	M.V.R. Duriga Sai	1/1/1	1/1/1
4	T. Duriga Moumika	1/1/1	1/1/1
5	S.K.V.N. Sivamani	1/1/1	1/1/1
6	T. B. Thyoth	1/1/1	1/1/1
7	S. Siva Kumar	1/1/1	1/1/1
9	V. D. Yaswanth	1/1/1	1/1/1
10	K. V. N. Srinivas	1/1/1	1/1/1
11	P. Siva Kesava	1/1/1	1/1/1
12	M. Suren	1/1/1	1/1/1
13	L. Lokesh	1/1/1	1/1/1
14	Ch. L. Duriga Prasada	1/1/1	1/1/1
15	B. Hemant Kumar	1/1/1	1/1/1
16	T. Jaya Sai	1/1/1	1/1/1
17	K. Kohinor	1/1/1	1/1/1
18	M. Krishna Rao	1/1/1	1/1/1
19	K. Naga Charan	1/1/1	1/1/1
20	S. B. Siva Sai	1/1/1	1/1/1
21	P. Srinivas	1/1/1	1/1/1
22	P. Kumar Varma	1/1/1	1/1/1
23	P. Sai Kumar	1/1/1	1/1/1
24	G. B. V. Durigareshmi	1/1/1	1/1/1
25	R. Venkata Praveen	1/1/1	1/1/1
26	D. S. C. Kirankumar	1/1/1	1/1/1
28	T. Sri Ni Venka	1/1/1	1/1/1