## Yashoda Girls' Arts & Commerce College, Nagpur



## **Department of Commerce**

**Assignment** 

Session: 2020 - 2021

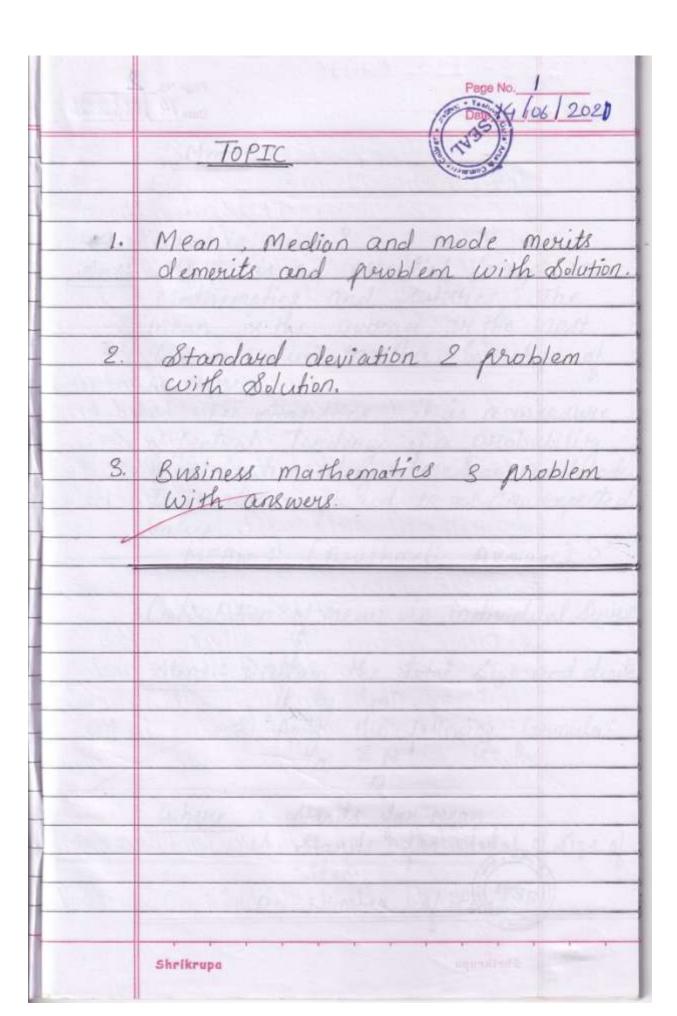
## YEAR : 2020 - 2021

## INDEX SUBJECT : Statistics

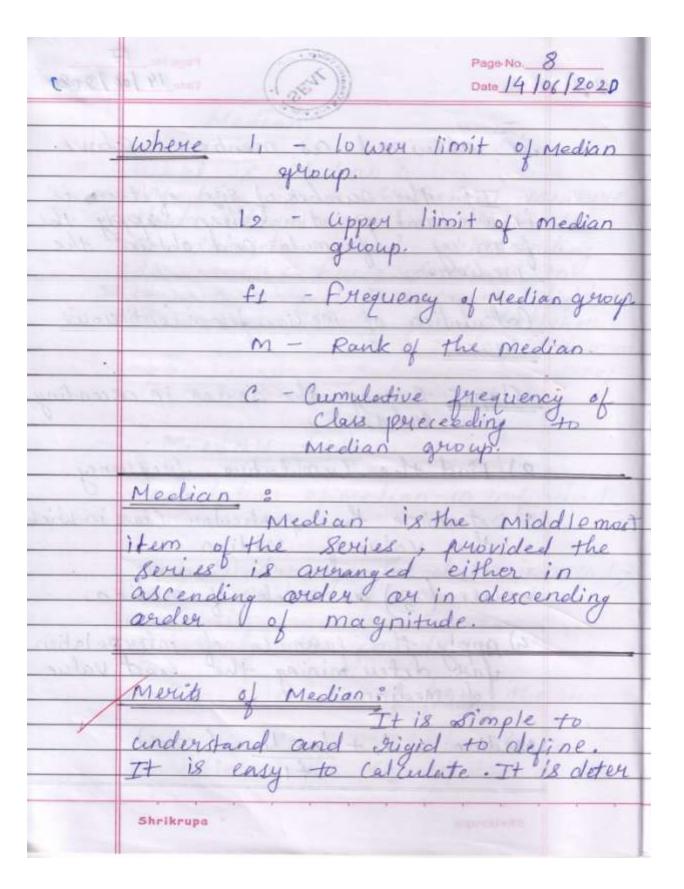
and Business mathematics

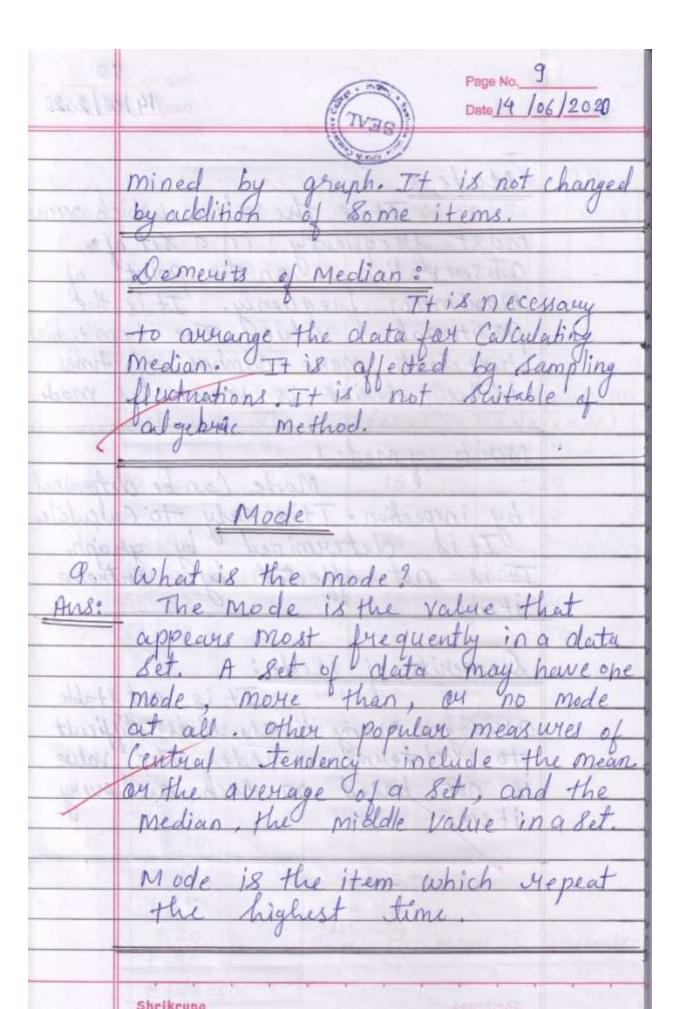
Name: NEHA . I . DAGOR

STD. : B. COM - I SEC. : Roll No. : JI SEM ASSIGNMENT Page Sr. No.



200	Page No. 7 Date 14 Job / 2020
07.5713	Page No. 7 Date 14 Job / 2020
	COLUMN !
redpor	is abtained as mentioned above.
	The state of the s
4	If the number of size of item is
redion	in decimal point then apply the
Talente	following formuly and obtain the
1.1.1.100	If the number of size of item is in decimal point then apply the following formula and obtain the median.
1	Calculation of Median from Continuous Sovies.
-0.03	Series.
10 6	Steps: Arrange the Series in according
The state of	order.
	Marian Atlanta
A STATE	2) find the (unulative frequency.
100	
dlegan	3) Determine the particular class in which the value of Median.
10/4	the value of Median.
0	madie thronounced a literature
neling	Use (n) as mank of median.
	The man to the wheel me
	a) Apply the farmula of interpolation
	fair defer mining the exact value
	lof Median.
to	Storage MATER TERM TO THE STORE OF THE STORE
.90;	Median = 1, + 12-1, (m-c)
8 00,54	T+ is early to collecte. The
	Shrikrupa Beganilada - Tanan -





12020	(SI					age No. 11			
01.	12 Attended the median from the								
Marks	10-20	20-30	30	2-40	40-50	50-60	60-70		
f	2	1	10	1	2	1	3		
	300	0.0F PH	M		'ama'	The			
		69-1		1537	18 100	Roll			
Solution:		187		123	95-	180			
	40-50 207								
	Marks No. of Student Mid - Value Dev. From as								
	(M)	(F)		CM.	V)37-	(dx/x	=35)		
		101	70	1	20-1-D 3	SE	May No. 13		
	10-20	2	15		-20				
1000	20-30	Latter-	12	25		-10			
	30-40	1		35		Colution O			
	40-50	2	30			0101110			
on CF	50-60	1	(F)	55		(M) +20			
6	60 - 70	3		65	5	+3	0		
	62	- No. 156	6.9		108	288			
	236		167		04	08			
	DIV. Fron	as av.	a	= X	+ Efc	rx.			
3830	×f. (4	(dx)	59		0.9	- 03			
17 11 16	193	100	88			≥ 03.			
	- 40		牙	35 +	10	HOW	0.15 - 15 - 10		
	-10	Acres				0.0			
	0	100	23	= 35	+8				
	+20	Mind to 1		= 43					
	t 20		The	u H	e mea	n is 4	3 Marks.		
	+ 90			- 51					
111111111111111111111111111111111111111	Efdx=	80							

1/2020	Paranti .			Page No	12 06/2020			
an	01	£	1	, ,	1 1 1			
92.	Determine the median from the following							
2 4	Jable.	10 - 01	0.1550					
	Income		No of Phu	eane				
100-	Relow 30		No. of Per	sorus				
	30 - 40		167	200	Bolistian			
	40-50		207		-mitsauce			
basa men	50 - 60	621	65	Madda	De Sall			
0 )	60 - 70		58	101				
	70 % above		10					
.0			M. S	10-20-	RA SAI			
0	the invited	Some	THEFT	20-30	1.64			
Solutions	07, 31 3	B.	San All	30 -110				
0	Income	NO.	of Person	Camale	whive			
-03	(m)	3	(f)	Freque	ncy (f			
0.8	4 - 1 - 2	9	3 1	107-03	0			
	20-30		69	69				
	30 -40		167	236	19			
Ma 1-0.1	40-50	-	207		- 1			
	50-60		65					
	60-70		58	566	100			
	70-80	-	10	576				
		n	PDA	9				
		1):	= 576	584				
4		4)		0.5 1				
Munte S Li	2 consider sin	2 30	0	02 +				

4	Page No	3 6/2021
white	Commente made etung the station	030
new Dir	m = Size of (n) the item.	
- 0	0 0 2	
09	10 20 30 40 50	1440 -
	= Size of (576.) th item.	11/2
911	78 78 6 (22) 3	Nase
		Person
	= Size of (288) th item.	(80)
- 19		12.0
-1V-45	Size of (288) thitem which in the group of 40-50  By interpolation:	11.68
	in the group of 40-80	
	By Intempolation:	91-0
	= 1, + 12 - 1, (m-c)	915.0
	13 F F F F F F F F F F F F F F F F F F F	
	STREET STREET	10-20
	=40+50-40 (288-236)	
	207	
7.446	= 40 + 10 (52)	20 - 80
283	207	
	= 40 + 520	
	207 FS TOTT	30-40
	= 40 + 2.51	
	= 42.51	
	This Median is Rs. 42.51	6.5 - 077
	22.6	
	1 7 8 7 7 7	50-60

1/202/1	Page 11; Sets /4 /6				Page No	14			
93.	Compute mode from the following series:								
	De	ies:	0	Sil	0	1			
		1/3	3 3						
Age:	10	20	30	40	50	60			
0	marina	0.	-10-		0-	1/0			
No. of	15	32	51	78	97	110			
Persons	15-15-17	Vision T	V. ha	La IX					
	TO THE PERSON NAMED AND ADDRESS OF THE PERSON NAMED AND ADDRES	Takaha	1 0	34 3					
Age	Tally bar	u I	TI	711	77 1	7 7			
	0001	1 701	9110	1	07-				
		0 : 1	arto Ist	No.	VS -				
0-10		15	7	-	199				
	The man	2-20 70	1.00		10.00				
2000 //200	- 692		132		51	16 G			
10-20	T	17	7	7	)				
	198720	1881	C)2-C)	36					
20-30	71117	19			, 6	23			
20-50	TIT.	(431)	1	- 00	1	>65			
	n67 170		> 46	4 8 4		960			
30-40	TITIE	27	Pros	7 1					
	hala addition		138	346					
			1	188					
40-50	TIL	19	7	ala.	59				
			732						
50-60	T	13	1	+					
760	Shrikrupa			1	g-editie				

. 6	Page No. 15
1202/3	
(0)	- alternated Devication
	Mode lies in group of 30-40
reital	By Interpolation:
	in Individual Laurantes
mati to	
and .	norm leafy to the stand
4 h	= 30 + 27 - 19 (40-30)
Gust	2(27)-19-19
. 30	attain the total Es
	= 30 + 8 X10
io/www	8) Applied the 31 fortening of
	= 30 + 80 = 30 + 5 = 35
31	- 30 + 60 - 30 + 3 = 35
	S J TO THE STATE OF THE STATE O
	Thus mode is 35 years.
and F	
50	John a feetball sealor will
81	Talleting - State tobich Labora
	LINE RESERVE TO SERVE VISITION
	The second secon
	Shrikrupa agustiere

	Page No. 16 Date 15 / 06 / 2020
200	Standard Deviation (0)
0.00	collistation of the land about tion
- 1	in Individual Series:
1.	10 0 10 10 10 10 10 10 10 10 10 10 10 10
soteps:	D Take the deviations of the item
Par us	Descriptions of the item from an assumed mean and alenote these deviation by dx.
(08)	LAG PAT IN THE CONTRACT OF THE
	2) Square these deviations and ablain the total & dx.
Liese e	ablain the total Zdx.
	U.S. C. LEWIS CO.
Davie.	3) Apply the following farmula.
	28 = 24 / 12 / 112
10.35	$S.D = 0 = \int \frac{\xi dx^2}{n} - \left(\frac{\xi dx}{n}\right)^2$
	The state of the s
9.1	Goals Scored by two tearns Aand B
	in a football Season were as follows. State which Jean is
112-160	more Constant.
1731 50	
	Shrikrupa

Page No	17
Date_/5	106/2020

1			
	No. of goals	No. of matches	played
	Scored ina	No. of matches Team (A)	(Team B)
	metch		
	Mary Design	48-2-10	EN 21 65 5
	0	27	17
	1	g	9
	2	8	6
	3 3	7015	125
	49	4	3

	S/OZ- Team A										
	Uto als Biored	NO.01	Dev. Lorom	Dev. as. av	Dev. as. a						
	in a match	matches	as.av.xf		Squared X						
	(m)	(f)	(ob/x=2)	(fdx)	(fdw)2						
	0	278-0	1-2 =	-54	108						
	1	9	-	-9	9						
	2	8 17	0 =	0	0						
	3	5	71	+5	5						
	4	4	1+2	+8	16						
1	TOTAL SOLIT	000	X D =	KOV	0 140						
	0.00	N=53	- de	Efdx-50	Stell=138						

coly deal de

Shillings

a= X + Efdz 20.1

Shrikrupa

15 1 1 / 2020

1/2021	Page No. 18 Date 15 106/2020
Unit	= 2 + -50
(No	53
	I de traditional de la contracte de la contrac
	= 294
a state de la constante de la	Particle and Control Of the Control
	= 1.06
	S.D. = $\sigma = \left  \frac{\xi f dx^2}{2} - \left  \frac{\xi f dx}{2} \right ^2 \right $
	$\sqrt{n}$ ( $n$ )
	= 138 -/-50 2
en. An level	53 (53)
Lauredee	- Ax + Ax Voice entropy atomore
1 Fedal 2	$=\sqrt{2.60-(-94)^2}$
108	= \2.6089\\
6	6-1-5
401	= Q 1.71 = 8
31,	
- 1	=+1.31 A
Caste-138	$\frac{C.V = 0 \times 100}{a}$
	= 1.31 × 100
	1.06 MAD + X = N
	= 123.58%

15:0/19	Com/2/				Page No	19	2020			
9.2	Calculate the Standard deviation of the following Series.									
	Mark (Morre than): 0 10 20 30 40 50									
	60 70									
	No.0]. Student: 100 90 75 50 25									
	15 5 0									
Solution:	X	f	m.v	dn(25)	j(10)	) Fdn	folni			
	K.S. W.	0100	2.54	-	15.75		Sinni			
1	0-10	10	5	-20	-2	-20	40			
	10-20	15	15	-10	-1	-15	15			
	20-30	25 01	25	0	0	0	0			
1	30-40	25	35	+10	+1	25	25			
-	40-50	10	45	+20	+2	20	40			
/	50-60	10	55	+30	+3	30	90			
	60-70	5	65	+40	+4	20 Efdn	80			
		n=100	107	1.6		= 60	290			
			1			0.0	200			

Shrikrupa

Dam 15 /01/ 2425 Anogression: A gleometric Sequence 6 Hation Which the Common 18 denoted by R Mathematics is an important part Maneying business. Business and mathematics go hand and money en companies everything in to manage money 98 neguires everyone Commercial organizations Manketing analysis. and Linancial fractions; measurements involved in interest (al culation, hire rates, Salar Calculation, ton Calculation etc.

Shrikrupa

	Page No. 24 Date 15   06   2020
Q. 1	Find the amount of RI 40,000 at 12%
interes	per annum in 4 years Compounded
distant	Find the amount of Rs. 40,000 at 12%.  Per annum in 4 years Compounded  quarterly.
Solution	,
1000	Here: P = 40,000; R = 12%. P. a (quarterly
Turbery	37.)
didil	N ( a) ( a) ( a) ( b) ( b)
	N = 4 Years (quartely 16)
two twee	NOW: A = P (1+R)
- CV	100) 100
	Amostrophic for an informational inchance
uani.	A = 40,000 /1 + 3 16
ni Sal	100) 1 has
100	1 - 1/6
2004	= 40,000 (1.03)
THE STRAIG	= 40,000 × 1.6047
Similars	- 10,000 X 1.60 17
western's	= Rs. 64, 188
Souls	May lie account as track the track of the same of the
174	Miles De Deinsteil - densine Miles De Les
9.2	
1 20	of a Certain principal at 57, p.a. for
WHERE IN	two years in Rs. 35280. Find out
- 12	the principal- (may 2009)
	Chaileana
	Shrikrupa

12.2 (3	Page No. 25 Date 15 /06/2020
Ans:	A = 35280, P = ?, N = 2, R = 57.
10/6/20	$A = \left(1 + R\right)^N$
	$35280 = P(1+5)^2$
9	$35280 = P(1+0.05)^2$
	35280 = P(1.05)2
	35280 = P.1025
	1-1881)9
	P = 35280
	1.1025 9 188 5 =
	05-580 = 0
	principal 18 R8. 32000
	P = 4500
-	
9.3	The Compound intrust of a certain
	Sum fay 3 years at 10% P.a. interest
/	is Rs. 1489.50. Find the simple interest of his sum at the same reate and
	of mis sum at The same stall and
	for the Same period.
	Shrikrupa

	Page No. 27 Date 15 106/2020
	= 4500 x 10 x3
	= 4500 x 10 x 3
1.0	
	= 1350
3	Chitazo And
	Principal
	Principal Girls Area & Compart Agent
	- amoo
	1
-0.0	