		ST. PHILOMENA'S COLLEGE (AUTONOMOUS), MYSORE	
		PG DEPARTMENT OF ECONOMICS	
		QUESTION BANK (Revised Curriculum 2018)	
		SECOND YEAR- THIRD SEMESTER (2019-21 Batch)	
	Cl-	COURSE TITLE (PAPER TITLE): Code- C0520 COMPUTER APPLICATION FOR ECONOMICS QP Code: 965	==>
1	Sud:	How ctrl+c and ctrl+v shortcuts works?	552 2
1	2	What is Excel? Why we use it?	2
1	2 3	What is Excer: Why we use it? What are the different operations that can be performed on data using	2
1	5	excel?	4
1	4	Mention the applications of excel	2
1	5	How menu bar is useful in excel? Mention its different tabs.	2
1	6	What is Contextual tab in excel? Give an example.	
1	7	How functions are useful in excel?	2 2 2 2 2 2
1	8	Can we sort excel data? If yes, how?	2
1	9	Can we extract particular data in excel? If yes, how?	2
1	10	Mention any five function names that are available in Autosum tab?	2
1	11	What are financial functions? Mention any two financial functions.	2
1	12	Mention any five functions available in excel and its use.	2
1	13	What charts are in excel? Why we use it?	2
1	14	Mention different types of charts available in excel.	2
1	15	Mention different parts of a chart.	2
1	16	After inserting the chart can you edit it in excel? If yes, how?	2 2 2 2 2 2
1	17	After inserting the chart how do you update it in excel?	
1	18	Why we use pivot table and chart?	2
1 1	19 20	What is FPS? Montion different types of file engenization techniques	2 2 2 2 2 2
1	20 21	Mention different types of file organization techniques. What is the advantage of indexed file organization?	2
1	21	What is the disadvantage of Sequential file organization technique?	2
2	23	Define data.	2
$\frac{2}{2}$	23 24	What are the soft-wares used for statistical analysis?	2
3	25	The average GPA of all students is 2.70 A sample of 117 were drown and	2
-	_	sample mean is 3.00 and S.D is 0.70 Is there a different between mean and	
		sample mean? Test at 5% level of significance.	
3	26	What are the measure of central tendency?	2
-			-
3	27	What are the different types of arithmetic mean?	2
3	28	Define dispersion.	2
3	29	What do you mean by correlation?	2
3	30	What are the different types of correlation?	2
3	31	Distinguish between positive and negative correlation.	2
3	32	Distinguish between simple and multiple regression.	2
3	33	Distinguish between parametric and non parametric tests.	2
2	34	What do you mean by variable?	2
2	35	Distinguish between independent variable.	2
2	36	When does scatter plot is used?	2
4	37	What do you mean by time series analysis?	2
4	38	What do you mean by index numbers? what are the significance of	2
-	50	statistical tests?	4
		51AU5UVA1 17515.	

4	39	when do we use chi-square test?	2
4	40	When do we use non parametric tests?	2
3	41	When do we use parametric tests?	2
4	42	When we use a ANOVA tests?	2
4	43	Distinguish between the test an F test. What is the formula for range?	2
3	44	Write the formula for quarter deviation?	2
3	45	Define percentile.	2
3	46	Define quartile.	2
3	47	What is the formula for arithmetic mean?	2
3	48	Write a formula for median.	2
3	49	What do you mean by mode.	2
3	50	Mention the limitations of regression analysis.	2
3	51	Define coding.	2
3	51 52	What is the short cut method is use for data save and data print?	2
3	52 53	What are the softwares used for statistical analysis?	2
3	55 54	When do we use Pie chart?	2
3	55	When do we use bar graph?	2
3	55 56	When do we use histogram?	2
		8	2
3	57 59	When do we use scatter plot? What tool pools do we use for statistical emplication?	
3	58 50	What tool pack do we use for statistical application?	2
3	59	How do we import data?	2
3	60	How do we export data?	2
1	1	Explain the purpose of any ten short cut keys in windows.	5
1	2	Write a note on MS Excel.	5
1	3	Write a note on applications of MS Excel	5
1	4	Write a note on contextual tabs.	
1			5
1	5	How do you sort data in excel? Explain with an example.	5
-	6	Explain any one financial function in excel with an example.	5 5
1	6 7	Explain any one financial function in excel with an example. Write a note on charts.	5 5 5
1 1	6 7 8	Explain any one financial function in excel with an example. Write a note on charts. What are the different parts of a chart? Explain in detail.	5 5 5 5
1 1 1	6 7 8 9	Explain any one financial function in excel with an example. Write a note on charts. What are the different parts of a chart? Explain in detail. How do you keep a chart updates? Explain.	5 5 5 5 5
1 1 1 1	6 7 8 9 10	Explain any one financial function in excel with an example. Write a note on charts. What are the different parts of a chart? Explain in detail. How do you keep a chart updates? Explain. Write a note on files.	5 5 5 5 5 5 5
1 1 1	6 7 8 9 10 11	Explain any one financial function in excel with an example. Write a note on charts. What are the different parts of a chart? Explain in detail. How do you keep a chart updates? Explain. Write a note on files. Write a note on sequential file organization technique.	5 5 5 5 5 5 5 5 5
1 1 1 1 1	6 7 8 9 10	Explain any one financial function in excel with an example. Write a note on charts. What are the different parts of a chart? Explain in detail. How do you keep a chart updates? Explain. Write a note on files.	5555555555
1 1 1 1 1 1 1	6 7 8 9 10 11 12	Explain any one financial function in excel with an example. Write a note on charts. What are the different parts of a chart? Explain in detail. How do you keep a chart updates? Explain. Write a note on files. Write a note on sequential file organization technique. Write a note on random file organization technique.	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
1 1 1 1 1 1 1 1 2 2	6 7 8 9 10 11 12 13 14 15	Explain any one financial function in excel with an example. Write a note on charts. What are the different parts of a chart? Explain in detail. How do you keep a chart updates? Explain. Write a note on files. Write a note on sequential file organization technique. Write a note on random file organization technique. Write a note on indexed file organization technique. Explain sequential file organization in detail. Explain random file organization technique in detail.	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
1 1 1 1 1 1 1 1 2 2 2	6 7 8 9 10 11 12 13 14 15 16	Explain any one financial function in excel with an example. Write a note on charts. What are the different parts of a chart? Explain in detail. How do you keep a chart updates? Explain. Write a note on files. Write a note on sequential file organization technique. Write a note on random file organization technique. Write a note on indexed file organization technique. Explain sequential file organization in detail. Explain random file organization in detail. Explain indexed file organization in detail.	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
1 1 1 1 1 1 1 1 2 2	6 7 8 9 10 11 12 13 14 15	Explain any one financial function in excel with an example. Write a note on charts. What are the different parts of a chart? Explain in detail. How do you keep a chart updates? Explain. Write a note on files. Write a note on sequential file organization technique. Write a note on random file organization technique. Write a note on indexed file organization technique. Explain sequential file organization in detail. Explain random file organization in detail. Explain indexed file organization in detail. Differentiate between sequential, direct and indexed file organization	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
1 1 1 1 1 1 1 2 2 2 2	6 7 8 9 10 11 12 13 14 15 16 17	Explain any one financial function in excel with an example. Write a note on charts. What are the different parts of a chart? Explain in detail. How do you keep a chart updates? Explain. Write a note on files. Write a note on sequential file organization technique. Write a note on random file organization technique. Write a note on indexed file organization technique. Explain sequential file organization in detail. Explain random file organization technique in detail. Explain indexed file organization in detail. Differentiate between sequential, direct and indexed file organization technique.	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
1 1 1 1 1 1 1 1 2 2 2	6 7 8 9 10 11 12 13 14 15 16	Explain any one financial function in excel with an example. Write a note on charts. What are the different parts of a chart? Explain in detail. How do you keep a chart updates? Explain. Write a note on files. Write a note on sequential file organization technique. Write a note on random file organization technique. Write a note on indexed file organization technique. Explain sequential file organization in detail. Explain random file organization in detail. Explain indexed file organization in detail. Differentiate between sequential, direct and indexed file organization technique. Calculate Athematic mean for the data given below:	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
1 1 1 1 1 1 1 2 2 2 2	6 7 8 9 10 11 12 13 14 15 16 17	Explain any one financial function in excel with an example. Write a note on charts. What are the different parts of a chart? Explain in detail. How do you keep a chart updates? Explain. Write a note on files. Write a note on sequential file organization technique. Write a note on random file organization technique. Write a note on indexed file organization technique. Explain sequential file organization in detail. Explain random file organization technique in detail. Explain indexed file organization in detail. Differentiate between sequential, direct and indexed file organization technique.	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
1 1 1 1 1 1 1 2 2 2 2	6 7 8 9 10 11 12 13 14 15 16 17	Explain any one financial function in excel with an example.Write a note on charts.What are the different parts of a chart? Explain in detail.How do you keep a chart updates? Explain.Write a note on files.Write a note on sequential file organization technique.Write a note on random file organization technique.Write a note on indexed file organization technique.Write a note on indexed file organization technique.Write a note on indexed file organization technique.Explain sequential file organization in detail.Explain random file organization in detail.Explain random file organization in detail.Explain indexed file organization in detail.Differentiate between sequential, direct and indexed file organization technique.Calculate Athematic mean for the data given below:Age more 10 20 30 40 50 60 70Mo of 148 124 109 71 30 16 01	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
1 1 1 1 1 1 1 2 2 2 2	6 7 8 9 10 11 12 13 14 15 16 17	Explain any one financial function in excel with an example.Write a note on charts.What are the different parts of a chart? Explain in detail.How do you keep a chart updates? Explain.Write a note on files.Write a note on sequential file organization technique.Write a note on random file organization technique.Write a note on indexed file organization technique.Explain sequential file organization in detail.Explain random file organization in detail.Explain random file organization in detail.Explain indexed file organization in detail.Differentiate between sequential, direct and indexed file organization technique.Calculate Athematic mean for the data given below:Age more 10 20 30 40 50 60 70 than	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

		Class 5- 10- 15- 20- 25- 30-	
		interval 10 15 20 25 30 35	
		Frequency 5 8 7 10 6 4	
3	20	Calculate median and mode for the data given below:	5
		Mid-value 10 20 30 40 50 60	
		Frequency 30 40 15 25 38 35	
3	21	Calculate median and mode for the following data:	5
		Size 11- 16- 21- 26- 31- 36- 41- 46-	
		15 20 25 30 35 40 45 50	
		Frequency 7 10 13 26 35 22 11 5	
3	22	Calculate geometric mean for the data given below:	5
		Size 2 4 6 8 10 12	
		Frequency 6 8 9 4 3 5	
3	23	For the data given calculate harmonic and geometric mean:	5
		Class 5- 15- 25- 35- 45-	
		15 25 35 45 55	
		Frequency 15 30 25 10 15	
3	24	Calculate the geometric mean for the data:	5
		Size of 6 7 8 9 10 11 12	
		items	
		Frequency 8 12 18 26 16 12 8	
3	25	Calculate harmonic mean of the follow data:	5
		Marks 10- 20- 30- 40- 50-	
		$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	
		Frequency 30 75 70 135 220	
3	26	Find the quartile and quartile co-efficient of the following data	5
		C- 0- 1- 20- 30- 40-	
		I 10 20 30 40 50	
		F 10 5 20 15 10	
3	27	Calculate the Standard deviation and its co-efficient for the weights of 10	5
5	41	e e e e e e e e e e e e e e e e e e e	5
_		students is given below: 60,61,60,62,63,63,64,64,70,71	_
3	28	A batch of 10 students obtained the following marks out of 100. Calculate	5
		the mean deviation and coefficient: Marks—58, 39,22,11,44,28,49,55,41	
		and 42.	
3	29	From the following data, calculate quartile deviation and its co-efficient;	5
5	2)		5
		Wage less 0- 10- 20- 30- 40- 50- 60- than 10 20 30 40 50 60 70	
		$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	
		Workers 20 13 20 50 55 55	
3	30	Calculate quartile deviation and its co-efficient for the data given below.	5
Ū	•••	$\boxed{\text{Mid} - 3 4 5 6 7 8 9}$	U
		Frequency 11 14 20 24 20 16 5	
3	31	Find range and its coefficient for the data given.	5
•	• -	Sl. No 1 2 3 4 5 6 7 8 9 10	e
		Strike 1 2 3 4 5 6 7 6 7 10 Values 391 384 591 407 672 522 777 733 2488 1490	
3	32	The yearly income of a person for the last ten years is given below. Find	5
-		the range and its coefficient:	-
		Year 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 Income 40 30 80 100 80 90 120 110 130 150	
3	33	Calculate the correlation coefficient from the following data of marks	5
5	55	Calculate the contration coefficient from the following data of marks	3

obtained in commerce ((X) and Economics ((Y).
------------------------	---------------------	------

 Y
 48
 65
 50
 48
 55
 58
 63

3 34 From the data given below obtain the correlation coefficient.

Х	1	2	3	4	5	6	7	8	9	10
Y	10	7	2	6	4	8	3	1	5	9

- 2 35 What are steps to insert table in excel.
- 3 36 Seven students have obtain the following ranks in two subjects' history 5 and geography. Find their rank correlation coefficient.

5

5

5

5

Rank in	7	1	4	6	5	3	2	
History								
Rank in	5	1	2	3.5	3.5	7	6	
Geography								
	1 D			•	0.01	•	4	•

- 3 37 Find out Karl Pearson's Coefficient of correlation from the following data. 5 X 2 3 5 6 8 9 Y 6 5 7 8 12 11
- 3 38 From the following data calculate Karl Pearson's coefficient of correlation. 5 A 1 5 3 2 1 1 7 0 B 0 1 0 0 11 2 1 5
- **3 39** Find out coefficient of correlation from the following data.

X-- 17,18, 19, 20, 21, 22, 23, 24,25 Y--38, 37, 38, 33, 32, 33, 34, 29, 26

3 40 The following table gives the aptitude test scores and productivity indices 5 of 10 workers selected at random. Calculate the regression equations.

Aptitude Scores (X)	60	62	65	70	72	48	53	73	65	82
Productivity index Y	68	60	62	80	85	40	52	62	60	81

3 41 From the data given below find PRF and SRF lines Demand 56, 53, 45, 42, 54. Demand 26, 53, 45, 20, 10

Price25, 20, 18,
16, 21.Find the SRF function and R-square for the data given below:

X 18 ,20, 25, 29, 33. Y 15, 17, 20, 22, 26.

3

42

3 43 Specify a regression equation for output and labour. Estimate the same by 5 using following information Interpret the results

Output								
Labour	08	10	15	05	20	04	18	07

4 44 For the data given below state whether the new treatment is comparatively 5 superior to the conventional treatment. Test the chi-square at 5% level of Significance (critical Value-3.84).

Treatment	No of Patients					
	Favourable	No.				
	Response	Response				
New	60	20				
Conventional	70	50				

4 45 For the data given below apply chi-square and test which holiday is preferred and does gender affect preferred holidays at 5% level of significance:

	Beach	Cruise
Men	209	280
Women	225	248

4 46 A test was given to 5 students chosen at random from the M.Com. Class 5 ofthree universities in Madhya Pradesh. Their scores were found as followbetween the scores of students in the three universities. Test whether there is any significant difference in the scores at 5% level of significance.(Critical Value—3.44)

8											
	University Scores										
Α	90	70	60	50	80						
B	70	40	50	40	50						
С	60	50	60	70	60						

4 47 Study the performance of three detergents at three different water temperatures, the following 'whiteness' readings were obtained with specially designed equipment Perform a one-way analysis of variance, using 5% level of significance (given F=).

-			
			С
	Α	B	
Cold	5	5	6
Water			
Warm	4	5	6
Water			
Hot	5	4	5
Water			

4 48 Intelligence test on two groups of boys and girls gave the following results: 5 is there a significant difference in the mean scores obtained by boys and girls?

	Girls	Boys
No of	150	250
samples		
Average	75	70
S.D	15	20

4 49 Sample of sales in similar shops two towns are taken for a new product.

Town	Mean sales	Variance	Size of samples
1	42	4.3	6
2	55	5.1	8

Is there any differences in sales in the two towns? Use 5% level of significance (Table value-5.14)

- 4 50 A random sample of 17 agriculture labors have a mean income of 30000 5 and a S.D of 8000.A random sample of 18 non-agricultural works have mean income of 33000 and a S.D of 8300 .test the claim at = 0.05 that the mean annual income of agriculture and nan-agriculture workers are not same. (Critical value=2.042)
- 4 51 Following data show dividend yield between stocks listed BSE and NSE.is 5

5

there a difference in average yield between two markets? Test at percent level of significance critical value=1.96.

	BSE	NSE
Ν	22	28
Mean	4.21	3.62
SD	1.40	1.22

						Me	an	4.21	3.0	52						
						SD		1.40	1.2							
52	Calcula	ate Fi	sher	's ideal	ind	ex ni	umb	oer fi	om	the d	lata	give	en b	elow	/:	
			(Commod	ity	2009)			2010						
						Pric	e (Quant	ity	Price	Q	uanti	ity			
				4		10	_	19		12	50					
				B		12 25		15	20							
				С		-	<u>18</u> 10 20 12									
53	Calcula	ate th	e Pa	asche's	pri	ce an	ıd q	uant	ity i	ndex	for	the	foll	owin	ig ind	ex:
			Con	nmodity	20	19				2020						
					Pr			enditu	ire	Price	Ex	pene	ditu	re		
			Α		8		80			10	12					
			B		10		120			12	96					
			C		5		40			5	50					
	a		D		4		<u>56</u>			3	60					
54	Calcula	ate M		-		orth]	pric	e an	d qu		ty in	dex:	:			
			(Commod	ity	2015	_			2017						
						Pric		Quant	ity	Price		uanti	ity			
				4		16	_	50		24	45					
				<u>B</u>		18 20	3	<u>80</u>		24	25					
	T									15	8	(•)	• • •	• • • •		
55	From the following data construct an index number (i) with 2005 as base.															
	(ii) by c	chain	base	metho	d:											
	Year	2005	200	5 2007	20	08 2	2009	201	10							
	Price	50	60	62	65	5 1	70	78								
56	Followi	ing ar	e the	e index	nur	nber	of j	price	s (ł	base 1	1981	=10	0):			
	Year	199	0 1	991 19	92	1993	19	94	1995	199	6 1	997]			
	Index	14() 2	00 21	0	230	25	50	260	280	3	00				
	number															
57	From t	he giv	ven a	verage	pri	ces o	f th	ree c	omi	modi	ties,	find	l ch	ain l	oase ii	ndex
	numbe	rs cha	ained	l to 199	8:											
	Year	1991	1992	. 1993	19	94 1	1995	7								
		8	10	12	15		12	1								
	Y	10	12	15	18	2	20									
		5	9	12	15		18									
58	Fit a tr	end li	ne b	y the m	eth	od of	f ser	ni-av	/era	ges.						
	Year	2006	5 20	07 200	8 2	2009	201	0								
	Profits	28.0	29	.4 30.2	2	27.0	32.	5								
59	Estima					U			0			•		ng fo	our-y	early
	moving	,	0						or tl	·	ar 20	015	:	<u>. </u>		
			20	20 20			20	20	20	20	20		20	20	20	20
			00	01 02			04	05	06	07	08		09	10	11	12
		12	25	39 54	7	70	87	10	10	82	65	5 4	49	34	20	7
~ ~ ~	es							5	0		Ļ	ĻĹ				

4 60 Using three yearly moving average compute trend values and find for the 5 year 2008:

Year	1998	1999	2000	2001	2002	2003	2004	2005	2006
Sale	15	21	20	30	36	42	48	54	54

2	61	What i	is the	e sign	ifica	ince	of G	raph	s in	n dat	a an	alysi	s?			5
2	62	Explai	n the	e step	s in	volve	ed in	inse	rtio	on of	gra	phs ii	n excel	•		5
2	63	Discus	s the	step	s of	data	entr	y in l	Exc	cel or	r SP	SS.				5
2	64	Write	a not	te on	reco	oding	g the	data	a.							5
2	65	Write	the s	teps	to ap	oply	regr	essio	n te	est in	exc	el.				5
1	1	Illustr	ate fi	ive fu	ncti	ons i	in exe	cel w	ith	exai	nple	e.				10
1	2	How d	o yo	u cre	ate a	ı cha	rt in	exce	el?]	Expl	ain	with	a suita	ble exa	ample	10
1	3	Explai				-							el in de	tail.		10
1	4	Illustr										L				10
1	5					-					-	of file	e proce	ssing	system?	10
1	6	Explai		-				-								10
3	7	Calcul		nean								0	ven bel	ow:		10
		Marks	5		0-	10-	20-	30-			50-	60-				
		Numb	orof		10 6	<u>20</u> 5	30 8	40 15	5		60 6	70 3				
		Studer			U	3	0	15			U	5				
3	8	Calcul		nean.	me	dian	and	mod	e fo	or th	e da	ta giv	ven bel	ow:		10
		Weekl				der	16-	24-			6-	Abov				
				8	16		24	30	30		8	48				
		Numb		(A	8		16	48	90	0 3	0	8				
2	0	Emplo Exactly	•		1 -	-1				•						10
3	9	For the											•			10
		Sl.No Marks	1	2	3 73	4 70		-	7 85	-	9 86	10 79				
3	10	For th	_									-	:			10
		Incom		<u> </u>	000	200			400		00	6000	7000	8000		
		than R									-					
		Numb Persor		7	2	67	59		50	36)	29	4	10		
3	11	For th		a niv	en h	elow	7 me 9	n n	hor	ian a	nd	mode	•			10
5	11	Marks		5 1				30	100		inu i	nouc	•			10
		No of	,	4 6	8		3	2								
		Studer	nts		Ĩ		-									
3	12	Find th			1		-	1	: the	e data	a giv	en be	low.			10
					20-	30-	40-	50-								
					30 25	40	50	60	_							
2	13	Find th			85 d. dar	40	25	10 • tho	 foll	owin	a da	tai				10
3	15		Sl.no		2		4	5	6	7	<u>g ua</u> 8	1a.	10			10
			51.110 X	65	<u>2</u> 62	54	4 32	3 42	65		65	-	41			
3	14													tha da	ta given:	10
3	14	Items	ale i									mele	IIU IOI	the ua	ta given:	10
		Frequ	encv	60 3			13 8		<u>110</u> 5	120 4	,					
3	15	-		_							 со-е	fficie	nt for	the da	ta given:	10
-		Age		20-	25-				0-	45-	50-					
		8*		25	30	35				50	55					
		No of		170	110) 80	45	5 4	0	30	25					
2	17	Emplo				<u> </u>			• /					•	•	4.0
3	16	Calcul											or the	uata g	iven:	10
		Class	0- 10	10- 20	20- 30	30- 40	· 40· 50			60- 70	70- 80	80- 90				
		1	10	40	50	-+0	50			10	00	20				

f		5	15	25	35	45	55	65	75	85	
---	--	---	----	----	----	----	----	----	----	----	--

3 17 Calculate the Mean deviation and its co-efficient for the data given:

Items	U	1	L 2	3	4	Э	0	/	ð	9	10	11	12	
Frequency	15	16	21	10	17	8	4	2	1	2	2	0	2	
F (1 A		•		0									•	

3 18 From the following data find out Karl Pearson correlation between Age 10 and Illiteracy

Age-Group	10-	20-	30-	40-	50-	60-	70-
	20	30	40	50	60	70	80
Total	120	100	80	50	25	15	5
Population							
Illiterate	100	75	60	30	20	10	5
Population							

19 Find the Spearman's Rank Coefficient of Correlation for the following **10** bivariate data.

Series- X	8	7	6	9	5	4	10
Series-	10	10	11	14	9	9	12
Y							

3 20 Find out Rank coefficient of correlation between sales and profits of ten 10 firms.

Sales	50, 50, 55, 60, 65, 65, 65, 60, 60, 50
Profits	11, 13, 14, 16, 16, 15, 15,14, 13, 13

3 21 Find out the Coefficient of Correlation between X and Y by the method of 10 Rank-Differences.

> Scores-X—15, 18, 22, 17, 19, 20, 16, 21 Scores-Y—40, 42, 50, 45, 43, 46, 41, 41

3	22	Find the Ran	k Correlation Coefficient betw	veen two sets of scores.	10
		Statistics	88, 36, 98, 25, 75, 82, 92,		
			62, 65, 35.		
		Accountancy	84, 51, 91, 60, 68, 62, 86,		
			58, 95, 49.		
3	23	For the data	given below obtain r ₁₂ , r ₁₃ and	r ₂₃ .	10
		X. 65 40	35 75 63		

3 **24** For the data given below obtain r_{12} , r_{13} and r_{23} . 20 80 35 80 60 50 X_1 70 40 35 80 75 80 X_2

- 3
 26
 For the data given below obtain r₁₂, r₁₃ and r₂₃.
 10

 X₁
 9
 12
 10
 7
 17

 X₂
 2
 5
 4
 3
 6

 X₃
 4
 5
 6
 3
 8

 3
 27
 From the following data, find the PRF and SRF equation.
 10

Χ	2	3	4	5	6	
Y	6	5	4	3	2	
Ζ	10	6	11	16	7	

3 28 From the following data find the PRF and SRF function. 10

Y	8	36	23	27	14	12
X ₁	10	37	18	25	14	28
X ₂	8	20	14	11	9	4
	-	-		-	-	

3 29 For the data given below find SRF, R-square and adjusted R-square:

State	Α	B	C	D	E	F
Y (in	40	50	60	70	80	90
Quintals)						
X Rainfall (in	20	30	40	50	60	70
inches						
Т	20	30	40	30	20	40
Temperature						
				-		-

4 30 From the following data find out whether there is any relationship between the sex and preference of colour:Apply the Chi-square test for the data given below. Test the effectiveness of Chloromycetin in checking typhoid at 5 % level (the chi-square at 5% level of significance critical Value-3.841)

Colour	Males	Females	Total
Red	10	40	50
White	70	30	100
Green	30	20	50
Total	110	90	200

4 31 For a given 150 observations classified by two attributes A and B as follows. Use the Chi-square test whether A and B are associated.

	A ₁	A ₂	A ₃	Total
B ₁	40	25	15	80
B ₂	11	26	8	45
B ₃	9	9	7	25
Total	60	60	150	150

4 32 For the data given below state whether the new treatment is comparatively 10 superior to the conventional treatment. Test the chi-square at 5% level of Significance (critical Value-3.84).

No of Patients	
Favourable	No.
Response	Response
60	20
70	50
	Response 60

4 33 Study the performance of three detergents at three different water temperatures, the following 'whiteness' readings were obtained with specially designed equipment Perform a two-way analysis of variance, using 5% level of significance (given F= 6.94).

Water	Detergent	Detergent	Detergent				
Temperature	Α	В	С				
Cold Water	7	5	7				
Warm	9	2	8				
Water							
Hot Water	4	6	8				
F 11 • 1							

4 34 Following data show academic background and choice of course of MBA 10 students. Test a hypothesis of whether academic influence choice of course at 5% level of significance (Table value=24.99)

Course	Accounting	Finance	Marketing
BA	22	10	08
BBA	10	18	25

10

10

10

BSc 30 12 10	
--------------	--

4 35 The following table gives the number of units produced per day by two workers A and B for a number of days: Test at 5% level of significance should these results be accepted as evidence that B is the more stable worker.

Α	40	30	38	41	38	35	-	-
В	39	38	41	33	32	49	49	34

4 36 Two types of drugs were used on 5 and 7 patients for reducing their weight. Drug A was imported and drug B indigenous. The decrease in the weight after using the drugs for six months was as follows. Is there a significant difference in the efficiency of the two drugs? If not which drug should you buy? (Critical value =2.223)

Drug	10	12	13	11	14	-	-
Α							
Drug	8	9	12	14	15	10	9
B							

4 37 Ten young recruits were put through a strenuous physical training programme by the army. Their weights (in kg) were recorded before and after with the following results: using 5% level of significance conclude that the programme affects the average weight of young recruits.

Recruit	1	2	3	4	5	6	7
Weight before	127	195	162	170	143	205	168
Weight after	135	200	160	182	147	200	172

4 38 Calculate Marshall-Edgeworth price and quantity index:

		A	-	
Commodity	2015		2017	
	Price	Quantity	Price	Quantity
Α	16	50	24	45
В	18	30	24	25
С	20	5	15	8
D	10	6	12	16
Е	10	10	14	12

4 **39** Calculate Marshall-Edgeworth number from the data given below:

Commodity	2009		2010		
	Price	Quantity	Price	Quantity	
Α	10	49	12	50	
В	12	25	15	20	
С	18	10	20	12	
D	20	5	40	2	
	-			-	

4 40 Calculate Paasche's price and quantity index numbers:

Commodity	2009		2010	
-	Price	Quantity	Price	Quantity
Α	10	49	12	50
В	12	25	15	20
С	18	10	20	12
D	20	5	40	2
Е	10	10	14	12
•	•	1	• 1	6 41 6

4 41 Calculate the Laspeyre's price and quantity index for the following index: 10

Commodity	2019		2020		
	Price	Expenditure	Price	Expenditure	
Α	8	80	10	120	

10

10

10

10

10

В	10	120	12	96
С	5	40	5	50
D	4	56	3	60
E	20	100	25	150

42 Calculate Fisher's ideal price and quantity index:

Commodity	2015		2017	
	Price	Quantity	Price	Quantity
Α	16	50	24	45
В	18	30	24	25
С	20	5	15	8
D	10	6	12	16
Е	10	10	14	12

43 Calculate the Paasche's price and quantity index for the following index:

Commodity	2019		2020			
	Price	Expenditure	Price	Expenditure		
Α	8	80	10	120		
В	10	120	12	96		
С	5	40	5	50		
D	4	56	3	60		
Е	20	100	25	150		
E	20		25	150		

44 Calculate Laspeyre's price and quantity index numbers:

2009		2010		
Price	Quantity	Price	Quantity	
10	49	12	50	
12	25	15	20	
18	10	20	12	
20	5	40	2	
10	10	14	12	
	Price 10 12 18 20	Price Quantity 10 49 12 25 18 10 20 5	PriceQuantityPrice10491212251518102020540	

45 Calculate Fisher's ideal index number from the data given below:

Commodity	2009		2010	
	Price	Quantity	Price	Quantity
Α	10	49	12	50
В	12	25	15	20
С	18	10	20	12
D	20	5	40	2

46 Fit a trend line by the method of semi-averages.

Year	2006	2007	2008	2009	2010
Profits	28.0	29.4	30.2	27.0	32.5

47 Estimate the trend values using the data given below by taking four-yearly moving average and forecast the value for the year 2015 :

	8								5					
Yea	19	20	20	20	20	20	20	20	20	20	20	20	20	20
rs	99	00	01	02	03	04	05	06	07	08	09	10	11	12
Valu	12	25	39	54	70	8 7	10	10	82	65	49	34	20	7
es							5	0						

48 Fit a trend line by using least square with the following data and find sales for the year 2005:

	•						
Years							
Sales	6.7	5.3	4.3	6.1	5.6	7.9	6.1
D . W	1.	41	1 4	4	41	1 · 17	

49 Briefly discuss the data entry method in Excel or SPSS software.

50 Briefly discuss the diagram insert steps in Excel.

	그는 같은 것이 같은 것은 것은 것은 것은 것이 같은 것을 가지 않는 것을 가지 않는 것을 가지 않는 것을 했다.
	한 날 같은 물리는 것 같은 것 같은 것 같아요. 그는 것 같은 것 것 같아요. 가 있을 수 있다.
	그 말한 것 같아. 그 아님들은 것 것 같은 것이다. 그 것 안 주는 것 같아요? 한 것 않았는 것
11.	Calculate mean, median and mode of the following distribution.
	C.I 20-30 30-40 40-50 50-60 60-70
	Frequency 8 26 30 20 16
12.	From the following data obtain the SRF equation and fit a line.
	x 6 2 10 4 8
	y 9 11 5 8 7
	그는 것 같은 것 같
13.	Fit one way ANOVA for the following data (Table value 6.94)
	ABC
	5 5 6
	4 5 6
	5 4 5
14.	Calculate Fisher's ideal index for the following data.
	10 120 12 96 5 40 5 50
	4 56 3 60
	20 100 25 150
	그 방법을 즐고 있는 것이 같은 것이 없는 것이 같아요. 나는 것이 말을 감독을 가지 않다.
	물고 잘 못한 것 것 같은 것 같아. 정말 그 것 같아. 것을 것을 했는 것

	같이 많은 것 같은 것이 같은 것 같은 것을 가지 않는 것 같이 많이 많이 있는 것이 없다.
	승규는 물건을 위해 가지 않는 것이 것 같은 것 같아요. 것 같아요. 것 같아.
	장님이 많은 것 같은 것 같은 것을 것이다. 전 별 문서가 가장하는 것 같아.
	가슴 가슴 옷을 만들는 것 같은 물건이 잘 못 가면 걸었다. 것 같아?
	그는 영국에서 지금 방법은 아직 위험을 제 한 것이라. 이는 것이 같아요.
	가슴이 그 가슴 옷을 잘 못 한 것을 잘 못 다 가지 않는 것을 못 했다. 것을 것 같아요.
	아버지는 눈은 한 것 같아요. 물란들을 한 것에서 정권한 것이 나는 물건이 없는 것을
	날에 다 한 것 같은 것 같은 것 같은 물건이 같이 있는 것 같은 것 같이 했다.
	물건물 방법을 위해 사람이 많은 것을 가지 않는 것을 하는 것이다.
	이 것이 같은 생각에 들어야 한 것이 같은 것이 집에 들었다. 않는 것이 같은 것이 없는 것이 없이 않이 없는 것이 없는 것이 없이 않이 않이 않이 않이 않이 않이 않이 않이 않이 않
	같은 그는 것 같은 것 것 같은 동안을 많은 것 같아? 것, 말 것은 것이 것이다.
	가지는 것은 아이들은 것은 것이 같은 것이 같이 같이 같이 같아요.
	상태 그는 것 같은 것을 몰을 잡으면서 물질을 했다.
	전성을 만들고 전혀 전망에서는 것을 가락하고 있는 것은 물로 깨끗했다.
	그는 그는 것이 같은 것은 것을 알았는 것이 아니는 것을 하는 것이 같이 했다.
	같은 것이 같은 것이 같이 많은 것을 잘 못했다. 것을 알았는 것이다.
	슬랫 그렇게 그렇게 잘 안 다 봐. 아는 나라가 가지 않는 것 같아.
	승규는 것 것 같아요. 관람들이 안 것 것 못하는 것 것
	같은 물건에 걸려 잘 제시했다. 유민이 관련하는 것을 많은 것이 없는 것이 없다.
	같은 걸 때 집에는 수술에 넣었다. 그는 것이는 것을 하는 것이 없다.
	중 것은 같이 가 들었다. 한 것은 것은 것은 것은 것은 것은 것이 가격했다.
	방법에 다 있는 것은 관계를 해서 많이 있던 것같아요. 전문화를 잡았다.
	신동 방법에 대한 것이 같은 것이 있는 것이 같이 많이 많이 많이 많이 있다.
	, 그는 그는 것은 것을 가지 않는 것을 하는 것을 하는 것을 했다. 것은 것은 것을 하는 것을 수 있다. 것을 하는 것을 하는 것을 하는 것을 하는 것을 하는 것을 하는 것을 수 있다. 것을 하는 것을 수 있는 것을 수 있는 것을 수 있는 것을 수 있는 것을 수 있다. 것을 수 있는 것을 것을 것을 수 있는 것을 수 있는 것을 수 있는 것을 수 있는 것을 것을 수 있는 것을 것을 것을 수 있는 것을 것 같이 않는 것을 것 같이 않는 것을 것 같이 않는 것을 것 같이 않는 것 않는 것 같이 않는 것 않는 것 같이 않는 것 않는 것 같이 않는 것 않는 것 않는 것 않는 것 않는 것 같이 않는 것 않는

St. Philomena's College (Autonomo	DUSJ IVIYSOFE
III Semester M.A. Final Examination D	ecember 2019
Subject: ECONOMICS	
Title: COMPUTER APPLICATION FOR ECON	OMIC ANALYSIS (SC)
	Max Marks:70
Time: 03 Hours PART –A	
그는 것은 그는 물건을 안 안 된 것 같아요. 그는 것 같아요. 그는 것이야지 않는 것 같아요.	5x2=10
Answer any FIVE of the following :	
1. a. Define Sorting.	
b. Define Pivot table.c. Mention any four short cut keys.	
d Define variable.	가지 아이들은 것은 가장 가장 가장을 가지 않는다. 이는 가장은 실패한 것은 바람을 수 있는 것을 가지 않는다.
e. Distinguish between simple and multiple regressions.	
f. What are measures of dispersion?	에는 걸릴 것이 가지 않는 것이다.
g. Define OLS.	
h. What are time series analyses?	일을 알려야 한 것을 많이 했다.
PART –B	6x5=30
Answer any SIX of the following:	그 장애에 잘 가지 않는 것이다.
2. Explain the process of file creation in M.S. Excel.	성을 사람을 걸고 물건을 받았다.
3. Explain any 5 short cut keys.	
4. Write a note on data management.	
5. Calculate range and it's co-efficient of the following	series.
SL. No 2.5 5.5 4.5 5.5 1.0 8 11	<u>10.5</u> 4
Value 7 1 3 5 4 9 8 11	
6. Use the rank correlation co-efficient for the following	g series.
x 1 6 5 10 3 2 4 9 7 8	
y 3 5 8 4 7 10 2 1 6 9	
7. Calculate the 3 yearly moving averages of the sales f	figure given below and
7. Calculate the 3 yearly noving average 2019 draw trend line and forecast for the year 2019	<u></u>
Year 2010 2011 2012 2013 2014 2015	2016
Sale 63 70 74 82 90 95	102
8. Write a note on Index number.	
9. Explain the steps in hypothesis testing.	
PART - C	3x10=30
Answer THREE of the following.	
10. Explain different types of files.	PTO
가지 아이지 않는 것같이 가지 않아야 한 것 같아요. 이상의 것을 수 있는 것 같은 그렇게 제가 같아요. 아이는 것이 가지 않는 것 같이 있는 것 같이 있는 것이 같아.	
에서 가지 않는 것은 것이 가지도 않는 것을 가지 않는 것이 있었다. 1997년 - 이상 및 이상 및 이상 및 관계에 가격했다. 이상 관계가 있는 것이 있는 것이 1997년 - 이상 및 이상	그렇는 걸고 말 가 싸는 것이.

	그는 같은 것이 같은 것은 것은 것은 것은 것이 같은 것을 가지 않는 것을 가지 않는 것을 가지 않는 것을 했다.
	한 날 같은 물리는 것 같은 것 같은 것 같아요. 그는 것 같은 것 것 같아요. 가 있을 수 있다.
	그 말한 것 같아. 그 아님들은 것 것 같은 것이다. 그 것 안 주는 것 같아요? 한 것 않았는 것
11.	Calculate mean, median and mode of the following distribution.
	C.I 20-30 30-40 40-50 50-60 60-70
	Frequency 8 26 30 20 16
12.	From the following data obtain the SRF equation and fit a line.
	x 6 2 10 4 8
	y 9 11 5 8 7
	그는 것 같은 것 같
13.	Fit one way ANOVA for the following data (Table value 6.94)
	ABC
	5 5 6
	4 5 6
	5 4 5
14.	Calculate Fisher's ideal index for the following data.
	10 120 12 96 5 40 5 50
	4 56 3 60
	20 100 25 150
	그 방법을 즐고 있는 것이 같은 것이 없는 것이 같아요. 나는 것이 말을 감독을 가지 않다.
	물고 잘 못한 것 것 같은 것 같아. 정말 그 것 같아. 것을 것을 했는 것

	같이 많은 것 같은 것이 같은 것 같은 것을 가지 않는 것 같이 많이 많이 있는 것이 없다.
	승규는 물건을 위해 가지 않는 것이 것 같은 것 같아요. 것 같아요. 것 같아.
	장님이 많은 것 같은 것 같은 것을 것이다. 전 별 문서가 가장하는 것 같아.
	가슴 가슴 옷을 만들는 것 같은 물건이 잘 못 가면 걸었다. 것 같아?
	그는 영국에서 지금 방법은 아직 위험을 제 한 것이라. 이는 것이 같아요.
	가슴이 그 가슴 옷을 잘 못 한 것을 잘 못 다 가지 않는 것을 못 했다. 것을 것 같아요.
	아버지는 눈은 한 것 같아요. 물란들을 한 것에서 정권한 것이 나는 물건이 없는 것을
	날에 다 한 것 같은 것 같은 것 같은 물건이 같이 있는 것 같은 것 같이 했다.
	물건물 방법을 위해 사람이 많은 것을 가지 않는 것을 하는 것이다.
	이 것이 같은 생각에 들어야 한 것이 같은 것이 집에 들었다. 않는 것이 같은 것이 없는 것이 없이 않이 않이 않이 않이 않이 않이 않이 않이 않이 않
	같은 그는 것 같은 것 것 같은 동안을 많은 것 같아? 것, 말 것은 것이 것이다.
	가지는 것은 아이들은 것은 것이 같은 것이 같이 같이 같이 같아요.
	상태 그는 것 같은 것을 몰을 잡으면서 물질을 했다.
	전성을 만들고 전혀 전망에서는 것을 가락하고 있는 것은 물로 깨끗했다.
	그는 그는 것이 같은 것은 것을 알았는 것이 아니는 것을 하는 것이 같이 했다.
	같은 것이 같은 것이 같이 많은 것을 잘 못했다. 것을 알았는 것이다.
	슬랫 그렇게 그렇게 잘 안 다 봐. 아는 나라가 가지 않는 것 같아.
	승규는 것 것 같아요. 관람들이 안 것 것 못하는 것 것
	같은 물건에 걸려 잘 제시했다. 유민이 관련하는 것을 많은 것이 없는 것이 없다.
	같은 걸 때 집에는 수술에 넣었다. 그는 것이는 것을 하는 것이 없다.
	중 것은 같이 가 들었다. 한 것은 것은 것은 것은 것은 것은 것이 가격했다.
	방법에 다 있는 것은 관계를 해서 많이 있던 것같아요. 전문화를 잡았다.
	신동 방법에 대한 것이 같은 것이 있는 것이 같이 많이 많이 많이 많이 있다.
	, 그는 그는 것은 것을 가지 않는 것을 하는 것을 하는 것을 했다. 것은 것은 것을 하는 것을 수 있다. 것을 하는 것을 하는 것을 하는 것을 하는 것을 하는 것을 하는 것을 수 있다. 것을 하는 것을 수 있는 것을 수 있는 것을 수 있는 것을 수 있는 것을 수 있다. 것을 수 있는 것을 수 있다. 것을 것을 것을 수 있는 것을 것을 것을 수 있는 것을 것을 수 있는 것을 수 있는 것을 수 있는 것을 것을 것을 것을 것을 것을 수 있는 것을 것 같이 않는 것을 것 같이 않는 것을 것 같이 않는 것을 것 같이 않는 것 같이 않는 것을 것 같이 않는 것 않는 것 같이 않는 것 않는