

**ST. PHILOMENA'S COLLEGE (AUTONOMOUS), MYSORE**  
**PG DEPARTMENT OF ECONOMICS**  
**QUESTION BANK (Revised Curriculum 2018)**  
**SECOND YEAR- THIRD SEMESTER (2019-21 Batch)**  
**COURSE TITLE (PAPER TITLE):**

**Sub: Code- C0520 COMPUTER APPLICATION FOR ECONOMICS QP Code: 96552**

1	1	How ctrl+c and ctrl+v shortcuts works?	2
1	2	What is Excel? Why we use it?	2
1	3	What are the different operations that can be performed on data using excel?	2
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.	2
1	7	How functions are useful in excel?	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
1	17	After inserting the chart how do you update it in excel?	2
1	18	Why we use pivot table and chart?	2
1	19	What is FPS?	2
1	20	Mention different types of file organization techniques.	2
1	21	What is the advantage of indexed file organization?	2
1	22	What is the disadvantage of Sequential file organization technique?	2
2	23	Define data.	2
2	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 drawn and 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.	2
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 statistical tests?	2

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	52	What is the short cut method is use for data save and data print?	2																
3	53	What are the softwares used for statistical analysis?	2																
3	54	When do we use Pie chart?	2																
3	55	When do we use bar graph?	2																
3	56	When do we use histogram?	2																
3	57	When do we use scatter plot?	2																
3	58	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.	5																
1	5	How do you sort data in excel? Explain with an example.	5																
1	6	Explain any one financial function in excel with an example.	5																
1	7	Write a note on charts.	5																
1	8	What are the different parts of a chart? Explain in detail.	5																
1	9	How do you keep a chart updates? Explain.	5																
1	10	Write a note on files.	5																
1	11	Write a note on sequential file organization technique.	5																
1	12	Write a note on random file organization technique.	5																
1	13	Write a note on indexed file organization technique.	5																
2	14	Explain sequential file organization in detail.	5																
2	15	Explain random file organization technique in detail.	5																
2	16	Explain indexed file organization in detail.	5																
2	17	Differentiate between sequential, direct and indexed file organization technique.	5																
3	18	Calculate Athematic mean for the data given below:	5																
		<table border="1" data-bbox="354 1738 885 1858"> <tr><td>Age more than</td><td>10</td><td>20</td><td>30</td><td>40</td><td>50</td><td>60</td><td>70</td></tr> <tr><td>No of Patients</td><td>148</td><td>124</td><td>109</td><td>71</td><td>30</td><td>16</td><td>01</td></tr> </table>	Age more than	10	20	30	40	50	60	70	No of Patients	148	124	109	71	30	16	01	
Age more than	10	20	30	40	50	60	70												
No of Patients	148	124	109	71	30	16	01												
3	19	For the data given below find athematic mean:	5																

Class interval	5-10	10-15	15-20	20-25	25-30	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	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50
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	15-25	25-35	35-45	45-55
Frequency	15	30	25	10	15

3 24 Calculate the geometric mean for the data: 5

Size of items	6	7	8	9	10	11	12
Frequency	8	12	18	26	16	12	8

3 25 Calculate harmonic mean of the follow data: 5

Marks	10-20	20-30	30-40	40-50	50-60
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 students is given below: 60,61,60,62,63,63,64,64,70,71 5

3 28 A batch of 10 students obtained the following marks out of 100. Calculate the mean deviation and coefficient: Marks—58, 39,22,11,44,28,49,55,41 and 42. 5

3 29 From the following data, calculate quartile deviation and its co-efficient; 5

Wage less than	0-10	10-20	20-30	30-40	40-50	50-60	60-70
No.of Workers	5	8	15	20	30	33	35

3 30 Calculate quartile deviation and its co-efficient for the data given below. 5

Mid – Value	3	4	5	6	7	8	9
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
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 the range and its coefficient: 5

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

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

X	50	60	58	47	49	33	65
Y	48	65	50	48	55	58	63

- 3 34 From the data given below obtain the correlation coefficient. 5

X	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 and geography. Find their rank correlation coefficient. 5

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

- 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. 5

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 of 10 workers selected at random. Calculate the regression equations. 5

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 5

Demand	56, 53, 45, 42, 54.
Price	25, 20, 18, 16, 21.

- 3 42 Find the SRF function and R-square for the data given below: 5

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

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

Output	50	67	72	40	80	25	100	57
Labour	08	10	15	05	20	04	18	07

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

Treatment	No of Patients	
	Favourable Response	No. 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: 5

	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 of three universities in Madhya Pradesh. Their scores were found as follows between 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) 5

	University Scores				
A	90	70	60	50	80
B	70	40	50	40	50
C	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  $F=$  ). 5

	A	B	C
Cold Water	5	5	6
Warm Water	4	5	6
Hot Water	5	4	5

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

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

- 4 49 Sample of sales in similar shops two towns are taken for a new product. 5

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

Is there any difference 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 and a S.D of 8000. A random sample of 18 non-agricultural workers have mean income of 33000 and a S.D of 8300. Test the claim at  $\alpha = 0.05$  that the mean annual income of agriculture and non-agriculture workers are not same. (Critical value=2.042) 5

- 4 51 Following data show dividend yield between stocks listed BSE and NSE. 5

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

	BSE	NSE
N	22	28
Mean	4.21	3.62
SD	1.40	1.22

- 4 52 Calculate Fisher's ideal index number from the data given below: 5

Commodity	2009		2010	
	Price	Quantity	Price	Quantity
A	10	49	12	50
B	12	25	15	20
C	18	10	20	12

- 4 53 Calculate the Paasche's price and quantity index for the following index: 5

Commodity	2019		2020	
	Price	Expenditure	Price	Expenditure
A	8	80	10	120
B	10	120	12	96
C	5	40	5	50
D	4	56	3	60

- 4 54 Calculate Marshall-Edgeworth price and quantity index: 5

Commodity	2015		2017	
	Price	Quantity	Price	Quantity
A	16	50	24	45
B	18	30	24	25
C	20	5	15	8

- 4 55 From the following data construct an index number (i) with 2005 as base. 5  
(ii) by chain base method:

Year	2005	2006	2007	2008	2009	2010
Price	50	60	62	65	70	78

- 4 56 Following are the index number of prices ( base 1981=100): 5

Year	1990	1991	1992	1993	1994	1995	1996	1997
Index number	140	200	210	230	250	260	280	300

- 4 57 From the given average prices of three commodities, find chain base index numbers chained to 1998: 5

Year	1991	1992	1993	1994	1995
X	8	10	12	15	12
Y	10	12	15	18	20
Z	5	9	12	15	18

- 4 58 Fit a trend line by the method of semi-averages. 5

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

- 4 59 Estimate the trend values using the data given below by taking four-yearly moving average and forecast the value for the year 2015 : 5

Years	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Values	12	25	39	54	70	87	105	100	82	65	49	34	20	7

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

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

- 2 61 What is the significance of Graphs in data analysis? 5  
 2 62 Explain the steps involved in insertion of graphs in excel. 5  
 2 63 Discuss the steps of data entry in Excel or SPSS. 5  
 2 64 Write a note on recoding the data. 5  
 2 65 Write the steps to apply regression test in excel. 5

- 1 1 Illustrate five functions in excel with example. 10  
 1 2 How do you create a chart in excel? Explain with a suitable example 10  
 1 3 Explain different tabs present in menu bar of excel in detail. 10  
 1 4 Illustrate the use of pivot table with an example. 10  
 1 5 What are the advantages and disadvantages of file processing system? 10  
 1 6 Explain file organization technique in detail. 10  
 3 7 Calculate mean, median and mode for the data given below: 10

Marks	0-10	10-20	20-30	30-40	40-50	50-60	60-70
Number of Students (f)	6	5	8	15	7	6	3

- 3 8 Calculate mean, median and mode for the data given below: 10

Weekly Wages	Under 16	16-24	24-30	30-36	36-48	Above 48
Number of Employees (f)	8	16	48	90	30	8

- 3 9 For the data given below mean, median and mode: 10

Sl.No	1	2	3	4	5	6	7	8	9	10
Marks	75	71	73	70	74	80	85	81	86	79

- 3 10 For the data given below mean, median and mode: 10

Income more than Rs	1000	2000	3000	4000	5000	6000	7000	8000
Number of Persons	72	67	59	50	36	29	4	10

- 3 11 For the data given below mean, median and mode: 10

Marks	5	10	15	20	25	30
No of Students	4	6	8	7	3	2

- 3 12 Find the Mean median and mode for the data given below. 10

CI	10-20	20-30	30-40	40-50	50-60
Y	12	35	40	25	10

- 3 13 Find the Standard deviation for the following data: 10

Sl.no	1	2	3	4	5	6	7	8	9	10
X	65	62	54	32	42	65	25	65	38	41

- 3 14 Calculate the Standard deviation and its co-efficient for the data given: 10

Items	60	70	80	90	100	110	120
Frequency	3	6	9	13	8	5	4

- 3 15 Calculate the Standard deviation and its co-efficient for the data given: 10

Age	20-25	25-30	30-35	35-40	40-45	45-50	50-55
No of Employee	170	110	80	45	40	30	25

- 3 16 Calculate the Mean deviation and its co-efficient for the data given: 10

Class	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90
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f	5	15	25	35	45	55	65	75	85
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3 17 Calculate the Mean deviation and its co-efficient for the data given: 10

Items	0	1	2	3	4	5	6	7	8	9	10	11	12
Frequency	15	16	21	10	17	8	4	2	1	2	2	0	2

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

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

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

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

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

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 Rank-Differences. 10

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

3 22 Find the Rank Correlation Coefficient between 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

$X_1$	65	40	35	75	63
$X_2$	60	55	50	56	30
$X_3$	62	56	62	59	42

3 24 For the data given below obtain  $r_{12}$ ,  $r_{13}$  and  $r_{23}$ . 10

$X_1$	80	35	20	80	60	50
$X_2$	70	40	35	80	75	80
$X_3$	60	35	66	70	45	58

4 25 Discuss the steps of ANOVA statistical test done in excel. 10

3 26 For the data given below obtain  $r_{12}$ ,  $r_{13}$  and  $r_{23}$ . 10

$X_1$	9	12	10	7	17
$X_2$	2	5	4	3	6
$X_3$	4	5	6	3	8

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

X	2	3	4	5	6
Y	6	5	4	3	2
Z	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 <sub>1</sub>	10	37	18	25	14	28
X <sub>2</sub>	8	20	14	11	9	4

- 3 29 For the data given below find SRF, R-square and adjusted R-square: 10

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

- 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) 10

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. 10

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

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

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

- 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). 10

Water Temperature	Detergent A	Detergent B	Detergent C
Cold Water	7	5	7
Warm Water	9	2	8
Hot Water	4	6	8

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

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

BSc	30	12	10
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- 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. 10

A	40	30	38	41	38	35	-	-
B	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) 10

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

- 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. 10

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: 10

Commodity	2015		2017	
	Price	Quantity	Price	Quantity
A	16	50	24	45
B	18	30	24	25
C	20	5	15	8
D	10	6	12	16
E	10	10	14	12

- 4 39 Calculate Marshall-Edgeworth number from the data given below: 10

Commodity	2009		2010	
	Price	Quantity	Price	Quantity
A	10	49	12	50
B	12	25	15	20
C	18	10	20	12
D	20	5	40	2

- 4 40 Calculate Paasche's price and quantity index numbers: 10

Commodity	2009		2010	
	Price	Quantity	Price	Quantity
A	10	49	12	50
B	12	25	15	20
C	18	10	20	12
D	20	5	40	2
E	10	10	14	12

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

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

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

- 4 42 Calculate Fisher's ideal price and quantity index: 10

Commodity	2015		2017	
	Price	Quantity	Price	Quantity
A	16	50	24	45
B	18	30	24	25
C	20	5	15	8
D	10	6	12	16
E	10	10	14	12

- 4 43 Calculate the Paasche's price and quantity index for the following index: 10

Commodity	2019		2020	
	Price	Expenditure	Price	Expenditure
A	8	80	10	120
B	10	120	12	96
C	5	40	5	50
D	4	56	3	60
E	20	100	25	150

- 4 44 Calculate Laspeyre's price and quantity index numbers: 10

Commodity	2009		2010	
	Price	Quantity	Price	Quantity
A	10	49	12	50
B	12	25	15	20
C	18	10	20	12
D	20	5	40	2
E	10	10	14	12

- 4 45 Calculate Fisher's ideal index number from the data given below: 10

Commodity	2009		2010	
	Price	Quantity	Price	Quantity
A	10	49	12	50
B	12	25	15	20
C	18	10	20	12
D	20	5	40	2

- 4 46 Fit a trend line by the method of semi-averages. 10

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

- 4 47 Estimate the trend values using the data given below by taking four-yearly moving average and forecast the value for the year 2015 :

Years	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Values	12	25	39	54	70	87	105	100	82	65	49	34	20	7

- 4 48 Fit a trend line by using least square with the following data and find sales for the year 2005: 10

Years	1995	1996	1997	1998	1999	2000	2001
Sales	6.7	5.3	4.3	6.1	5.6	7.9	6.1

- 2 49 Briefly discuss the data entry method in Excel or SPSS software. 10

- 2 50 Briefly discuss the diagram insert steps in Excel. 10

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

13. Fit one way ANOVA for the following data (Table value 6.94)

A	B	C
5	5	6
4	5	6
5	4	5

14. Calculate Fisher's ideal index for the following data.

$P_0$	$Q_0$	$P_1$	$Q_1$
8	80	10	120
10	120	12	96
5	40	5	50
4	56	3	60
20	100	25	150

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Q.P Code: 96552

**St. Philomena's College (Autonomous) Mysore**  
**III Semester M.A. Final Examination December 2019**  
**Subject: ECONOMICS**

**Title: COMPUTER APPLICATION FOR ECONOMIC ANALYSIS (SC)**

**Time: 03 Hours**

**Max Marks:70**

**PART -A**

**Answer any FIVE of the following :**

**5x2=10**

1. a. Define Sorting.
- b. Define Pivot table.
- c. Mention any four short cut keys.
- d. Define variable.
- e. Distinguish between simple and multiple regressions.
- f. What are measures of dispersion?
- g. Define OLS.
- h. What are time series analyses?

**PART -B**

**Answer any SIX of the following:**

**6x5=30**

2. Explain the process of file creation in M.S. Excel.
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	3.5	4.5	5.5	6.5	7.5	8.5	9.5	10.5
Value	7	1	3	5	4	9	8	11	4
6. Use the rank correlation co-efficient for the following 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 figure given below and draw trend line and forecast for the year 2019

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**

10. **Answer THREE of the following.**  
Explain different types of files.

**3x10=30**

**PTO**

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

13. Fit one way ANOVA for the following data (Table value 6.94)

A	B	C
5	5	6
4	5	6
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14. Calculate Fisher's ideal index for the following data.

$P_0$	$Q_0$	$P_1$	$Q_1$
8	80	10	120
10	120	12	96
5	40	5	50
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20	100	25	150

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