

**MODEL PAPER**  
**BUSINESS STATISTICS LAB -1**  
**B.COM II SEMESTER**

Attempt any four questions:

1. Open a excel file and type the following data and give output as required at the end of the question:

Column\ Row	B	C	D	E	F	G	H	I
3	2	7	12	17	22	27	32	37
4	6	14	22	30	38	46	54	62
5	10	21	32	43	54	65	76	87
6	14	28	42	56	70	84	98	112
7	18	35	52	69	86	103	120	137
8	22	42	62	82	102	122	142	162
9	26	49	72	95	118	141	164	187
10	30	56	82	108	134	160	186	212
11	34	63	92	121	150	179	208	237
12	38	70	102	134	166	198	230	262
13	42	77	112	147	182	217	252	287
14	46	84	122	160	198	236	274	312

- (i) Change the data of column B in Currency Dollor (\$)
- (ii) Color the column C data with yellow
- (iii) Hide the column D
- (iv) Sort the data of column E in descending order
- (v) Copy the data of F column and insert in J column
- (vi) Cut the data of G column and insert in K column
- (vii) Change the color of J column data in red
- (viii) Give border to whole data

Suggested answer:

	B	C	E	F	G	H	I	J	K
2									
3	\$2.00	7	160	22			32	37	22
4	\$6.00	14	147	38			54	62	38
5	\$10.00	21	134	54			76	87	54
6	\$14.00	28	121	70			98	112	70
7	\$18.00	35	108	86			120	137	86
8	\$22.00	42	95	102			142	162	102
9	\$26.00	49	82	118			164	187	118
10	\$30.00	56	69	134			186	212	134
11	\$34.00	63	56	150			208	237	150
12	\$38.00	70	43	166			230	262	166
13	\$42.00	77	30	182			252	287	182
14	\$46.00	84	17	198			274	312	198

2. From the following data prepare chart as required

(a) Prepare pie chart

a	b	c	d	e	F
55	70	50	45	37	30

(b) Prepare line chart

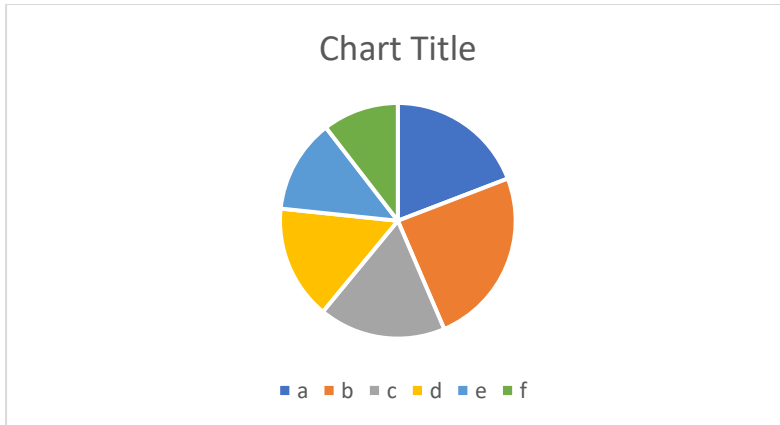
Year	1	2	3	4	5	6	7	8
data	8	11	15	10	12	16	18	21

(c) Prepare bar chart

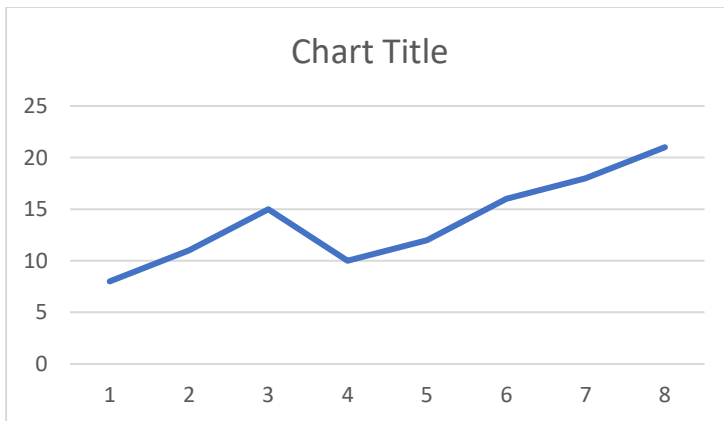
Year	1	2	3	4	5	6	7	8
data	8	11	15	10	12	16	18	21

Suggest answer:

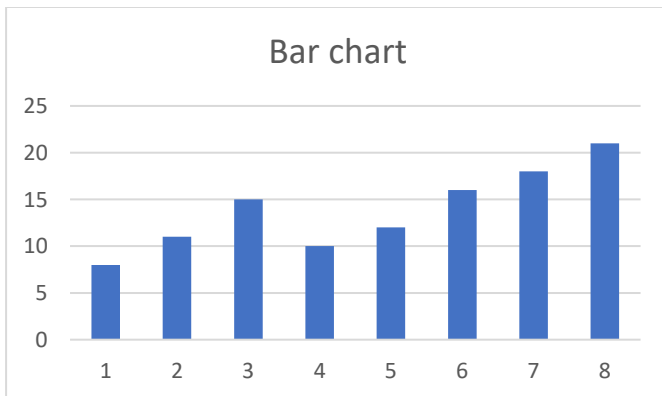
(a)



(b)



(c)



3. From the following data, enter in excel sheet and find mean, median, mode:

5	6	7	8	9	10	4	5	3	8
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3	5	6	7	9	8	7	6	5	5
4	2	8	7	4	3	2	1	0	8

SUGGESTED ANSWER

MEAN =AVERAGE(SELECT THE DATA RANGE)

ANS. 5.5

MEDIAN =MEDIAN(SELECT THE DATA RANGE)

ANS. 5.5

MODE =MODE.SNGL(SELECT THE DATA RANGE)

ANS. 5

4. From the following data, find out standard deviation and skewness through excel

5	6	7	8	9	10	4	5	3	8
3	5	6	7	9	8	7	6	5	5
4	2	8	7	4	3	2	1	0	8

Suggested answer:

Standard Deviation =STDEV.S(select the data range)

ans. 2.542738

Skewness =SKEW(Select the data range)

ans. -0.29664

5. From the following data, find out correlation through excel

X	6	7	8	9	10	4	5	3	8
Y	5	6	7	9	8	7	6	5	5

Suggested answer:

CORRELATION =CORREL(SELECT RANGE OF X VARIABLE,SELECT RANGE OF Y VARIABLE)

ANS. 0.573925