



Avinashilingam Institute for Home Science and Higher Education for Women
 (Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956)
 Re-accredited with 'A+' Grade by NAAC. Recognised by UGC Under Section 12B
 Coimbatore - 641 043, Tamil Nadu, India

Bachelor's Degree Examination – June / July 2021
II Semester

Class : I UG
Major : Tamil

Time : 3 Hours
Max. Marks : 100

18BTMI02 DSE – II Basic Statistics

Part A
Choose the Correct Answer

10 x 1 = 10

1. Statistics does not deal with _____ items. CO1 K1
 a. group b. individual
 c. quantitative d. none of the above
2. Data obtained by conducting a survey is called _____ data. CO1 K1
 a. secondary b. primary
 c. classification d. none of the above
3. Year wise recording of data of food production will be called _____ data. CO3 K6
 a. chronological data b. geographical data
 c. simple d. none of the above
4. In Histogram, bars _____ each other. CO3 K6
 a. intersect b. discrete
 c. touch d. none of the above
5. The mean of the values 11,12,13,14, and 15 is CO2 K3
 a. 12 b. 13
 c. 14 d. none of the above
6. _____ divides the series into two equal parts. CO1 K2
 a. Mean b. Median
 c. Mode d. None of the above
7. Relative measure of dispersion R = CO2 K1
 a. L-S b. L+S
 c. $\frac{L}{S}$ d. none of the above
8. Standard deviation is considered as _____ variation in the mean. CO2 K1
 a. total b. percentage
 c. range d. none of the above
9. Correlation coefficient values lies between CO2 K2
 a. -1 to +1 b. 0 to +1
 c. -1 to 0 d. none of the above
10. If r = +1, then the correlation is said to be _____ correlation. CO2 K2
 a. negative b. perfect positive
 c. positive d. none of the above

Part B
Answer ALL questions
Each answer should not exceed 400 words or two pages

5 x 6 = 30

- 11.a. Define statistics. Write any four limitations of statistics. CO1 K1
 (or)
 11.b. Explain Direct Oral interview with its Merits. CO1 K2
- 12.a. Explain two way table with examples. CO1 K2
 (or)
 12.b. Draw Histogram for the following data: CO3 K2

Marks	10-20	20-30	30-40	40-50	50-60	60-80	80-100
No.of Students	18	22	28	35	25	17	6

- 13.a. Write down the Merits of Mean. CO1 K2
 (or)
 13.b. Calculate Median for the following. CO1 K2
 8, 10, 5, 9, 12, 11
- 14.a. Define Dispersion. Calculate the Range for 22,37,26,45,52,12,16. CO1 K1
 (or)
 14.b. Coefficient of Variation of two series are 60 and 80 respectively. Their standar deviation's are 20 and 16 respectively. What is their Arithmetic Mean? CO1 K2
- 15.a. What is correlation? Explain its types. CO4 K1
 (or)
 15.b. Two ladies were asked to rank 7 different types of lipsticks. The ranks given by them are as follows: CO5 K2

Lipsticks	A	B	C	D	E	F	G
Neelu	2	1	4	3	5	7	6
Neena	1	3	2	4	5	6	7

Find the rank correlation coefficient.

Part C
Answer ALL questions
Each answer should not exceed 800 words or four pages

5 x 12 = 60

- 16.a. Explain the functions of Statistics. CO1 K2
 (or)
 16.b. Explain Indirect personal interview with its Merits and Demerits. CO1 K2
- 17.a. Explain the various methods of classification of data. CO1 K2
 (or)
 17.b. Draw Multiple Bar diagram for the following data: CO3 K2

Year	Sales('000 Rs)	GrossProfit('000 Rs)	Net Profit ('000 Rs)
2015	120	40	20
2016	135	45	30
2017	140	55	30
2018	150	60	40

CO1 K3

18.a. From the following data, compute Arithmetic Mean:

Marks	0-10	10-20	20-30	30-40	40-50	50-60
No.of Students	5	10	25	30	20	10

(or)

18.b. Calculate Mode for the following:

CO1 K3

C.I	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45
F	20	24	32	28	20	16	34	10	8

19.a. Write down the Merits and Demerits of Standard deviation.

CO1 K2

(or)

19.b. Prices of a particular commodity in five years in two cities are given below find which is more stable?

CO1 K2

A	20	22	19	23	16
B	10	20	18	12	15

20.a. Explain Scatter diagram.

CO5 K2

(or)

20.b. Find out the coefficient of correlation for the following:

CO4 K4

Height	57	59	62	63	64	65	55	58	57
Weight	113	117	126	126	130	129	111	116	112
