Answer Sheet No. **Business Statistics** (Smart Syllabus) Roll No.

PART – II 021/1 (Objective Part)

(INTERMEDIATE)

AJK-21

Fictitious Roll No. (For Office Use)

Sign. Dy. Supdnt. Sign. Candidate

Business Statistics 021/1 (Smart Syllabus)

(PART –II) (INTERMEDIATE) Marks : 10

(OBJECTIVE PART) Time : 15 Minutes

Note:- Write your Roll No. in space provided. Over writing, cutting, using of lead pencil will result in loss of marks. All questions are to be attempted.

1- Each question has four possible answers, Tick (√) the correct answer. (10)

1	Sample mean is a;						
	A	Parameter	B	Statistic	C	Coefficient	D	Constant

2	Any measure from population is called;						
	A	Parameter	B	Statistic	C	Statistics	D	Discrete

3	Classification has how many important basis;						
	A	2	B	6	C	5	D	4

4	Histogram is a graph of;						
	A	Time series	B	Parabola	C	Frequency distribution	D	straight line

5	The mean of constant 'a' is;						
	A	a	B	$\frac{a}{2}$	C	a^2	D	0

6	If $y = 3x + 5$, then $\bar{y}$ is equal to;						
	A	$3\bar{y}$	B	$3\bar{x} + 5$	C	$\bar{y} + 5$	D	$3(\bar{x} + 5)$

7	Which of the formula is used to calculate link relative;						
	A	$\frac{P_n}{P_{n-1}} \times 100$	B	$\frac{P_n}{P_o} \times 100$	C	$\frac{\Sigma p_n}{\Sigma p_o} \times 100$	D	$\frac{P_{n-1}}{P_n} \times 100$

8	Base year quantities are used as base;						
	A	Laspeyre's index	B	Paasche's index	C	Fisher's index	D	Chain index

9	Find the probability that number is odd if a single die is thrown;						
	A	$\frac{1}{6}$	B	$\frac{2}{6}$	C	$\frac{3}{6}$	D	$\frac{4}{6}$

10	For two mutually exclusive events A and B $P(A) = 0.70$, $P(B) = 0.30$, then $P(A \cup B)$ is;						
	A	0	B	0.40	C	1	D	0.30

(The End)

Business Statistics   021/1   (Smart Syllabus)

PAPER : PART – II   INTERMEDIATE

MARKS: 40   AJK-21

TIME : 1:45 Hours   (SUBJECTIVE PART)

Note:- Attempt any twelve (12) short questions in all selecting six from Q-2 and Q-3.

SECTION – I

2- Write short answers of any six questions.   **(2 x 6 = 12)**

1	What is primary data?	2	Define parameter.
3	What is continuous data?	4	Define the term mode. Give an example.
5	Write down the formula of median for group data.	6	Find model letter from the word "STATISTICS".
7	Find median from the values 10 , 25 , 15 , 30 , 20.	8	If $\Sigma(x - 4) = 25$ and $n = 50$. Find arithmetic mean.
9	Given the following data find mode 12 , 10 , 20 , 15 , 10 , 17 , 10		

3- Write short answers of any six questions.   **(2 x 6 = 12)**

1	Define classification.	2	What is meant by frequency distribution?
3	Define Pie chart.	4	Differentiate between simple and composite Index numbers.
5	What is chain base method?	6	If Laspeyre's index number = 105.4 and Paasche's Index Number = 103.2 then what will be the value of Fisher's Index?
7	Differentiate between simple and compound events.	8	What are the mutually Exclusive events?
9	Define sure events and Impossible events.		

SECTION – II

Note:- Attempt any two questions.   **(2 x 8 = 16)**

4- **a)** The following data relate to heights of first year students. Make a frequency distribution by taking class intervals of 2 inches. heights in inches.   (04)

62 , 67 , 65 , 64 , 70 , 70 , 66 , 64 , 63 , 65 , 66 , 68 , 71 , 60 , 64 , 63 , 62 , 64 , 65 , 66 , 70 , 71 , 70 , 72 , 69 , 68 , 62 , 65 , 64 , 62 , 68 , 67 , 65 , 69 , 69 , 64 , 66 , 63

b) Draw histogram of the following data.   (04)

Group	12 – 15	16 – 19	20 – 23	24 – 27	28 – 31	32 - 35
f	8	12	16	10	6	4

5- **a)** Fined A.M from the following data   (04)

Height	20 – 23	24 – 27	28 – 31	32 – 35	36 – 39
Freq.	1	9	18	10	2

b) Calculate mode of the following data.   (04)

Marks	0 – 10	10 – 20	20 – 30	30 – 40	40 – 50
No of Students	5	7	10	5	3

6- **a)** Calculate Fisher's Ideal index for the given data, taking 2017 as base.   (04)

Commodities	2017		2018	
	Price	Quantity	Price	Quantity
Rice	3.8	71	3.5	26
Barley	2.9	107	1.9	83
Maize	2.9	72	1.8	48

b) Three coins are tossed, what is the probability of getting at least one head appear?   (04)