Answer Sheet No. _____ **Business Statistics** Roll No. _____

PART – II 022/1 (Objective Part)

(INTERMEDIATE)

Sign. Dy. Supdnt. Fictitious Roll No. (For Office Use) Sign. Candidate

Business Statistics **022/1**

(PART –II) **(INTERMEDIATE)** **Marks : 10**

(OBJECTIVE PART) **Time : 15 Minutes**

AJK-22

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	The mid point of class 25 – 35 will be;							
	A	30	B	20	C	25	D	35
2	In the plural sense, statistical mean;							
	A	Methods	B	Data	C	Sample values	D	Population values
3	The graph of class boundaries and frequency is;							
	A	Bar chart	B	Ogive	C	Histogram	D	None of these
4	A Table has at least;							
	A	Three parts	B	Four parts	C	Five parts	D	None of these
5	The most frequent value is;							
	A	Mode	B	Median	C	Array	D	Mean
6	The difference between the upper and Lower class boundaries of a class is known as;							
	A	Class limit	B	Class frequency	C	Class marks	D	Class interval
7	Price Index number measures changes in;							
	A	Price	B	Quantity	C	Price and quantity	D	None of these
8	An Index number is called a simple Index number when it deals with;							
	A	Single variable	B	Two variables	C	More than two variables	D	None of these
9	The probability is the measure of;							
	A	Certainty	B	Changes	C	Un-certainty	D	None of these
10	When two coins are tossed, the possible out-comes are;							
	A	6	B	4	C	12	D	3

(The End)

Business Statistics 022/1

PAPER : PART – II INTERMEDIATE

MARKS: 40

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. AJK-22 **(2 x 6 = 12)**

i	What is the science of statistics?	ii	Define discrete variable by giving an example.
iii	What is meant by secondary data?	iv	What is meant by the term Tabulation?
v	What are the different measures of Average? (only name)	vi	Write down two merits of mode.
vii	Define the term median by giving an example.	viii	If mean = 25, median = 30, find mode.
ix	If $\Sigma(x-15)^2 = 868$, $\Sigma(x-16)^2 = 720$, $\Sigma(x-20)^2 = 982$, find $\overline{X}$.		

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

i	Define tabulation.	ii	What is relative frequency distribution?
iii	Name the types of graphs.	iv	Write the formula given by Fisher's Index number.
v	Define composite index number.	vi	Laspeyre's index = 115, Paasche's index = 111. Find Fisher's index.
vii	A fair dic is rolled once. What is the probability of an even number?	viii	Define equally likely events by giving one example.
ix	If A and B are mutually exclusive events such that P(A) = = 0.3, P(B) = 0.4. Find P(AUB).		

SECTION – II

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

4- a) The profit (Rs. Lacs) of 50 companies are given below: **(04)**

23	34	68	22	14	41	42	43	59	52
65	53	29	64	55	69	36	25	62	18
55	43	26	21	56	48	43	50	35	67
12	15	28	40	20	42	36	37	27	43
26	26	49	53	60	40	20	18	37	17

Classify the above data taking classes as 10 – 19 , 20 – 29 etc. make a frequency distribution.

b) Draw a Histogram for the following data. **(04)**

Age in years	15 – 19	20 – 24	25 – 29	30 – 34	35 – 39	40 – 44
f	12	26	21	18	10	13

5- a) Find arithmetic mean from the following data by direct method. **(04)**

Heights	60 – 64	65 – 69	70 – 74	75 – 79	80 – 84	85 – 89
Frequency	8	12	19	10	6	5

b) Find median from the following data **(04)**

Classes	10 – 14	15 – 19	20 – 24	25 – 29	30 – 34
f	2	15	20	10	3

6- a) Compute Paasche's price index number taking 2002 as base year. **(04)**

Commodities	Prices		Quantities	
	2002	2003	2002	2003
A	16	20	100	120
B	10	12	200	300
C	12	10	250	200

b) Two dice are thrown. Find the probability that sum is **(04)**

(i) Eleven (ii) Seven

(The End)