Roll	No						-
		SS STATIȘTICS ce Group)	Intermediate Part	-II, Class 12 th	(1 st A 424 - III)		PAPER: II
		Minutes	•	OBJECTIVE	G14J-24		Marks: 10
				Code: 8645	0,40 -1		. /
Note:		correct, fill that circle	for each objective type question as A, B, C and D. The choice front of that question number. Use marker or pen to fill the will result in zero mark in that question.			e which	ch you think is s. Cutting or
1-	1-	The mean and median (A) mean > median	an of any two values a (B) mean = m		mean < median	(D)	mean ≠ median
	2-	In a statistical table, (A) box head	column captions are (B) stub		body .	(D)	title
	3-	Which price relative	is used in fixed base	method			
		(A) $\frac{P_n}{P_o} \times 100$	(B) $\frac{P_n}{P_{n-1}} \times 100$	(C)	$\frac{P_{n-1}}{P_n} \times 100$	(D)	$\frac{P_{o}}{P_{n-1}}$ x 100
	4-	Which of the follow (A) 1.75	ing cannot be the prob (B) zero	. /	ent 0.78	(D)	0.82
	5-	An index number ca (A) composite index (C) quantity index n		(B)	price index number simple index number		
	6-	Height of a plant is _(A) qualitative varia(C) continuous varia			discrete variable attribute		• '
	7-	The grouped data is (A) primary data	called (B) secondary of	lata (C)	raw data	(D)	discrete data
	8-	Two events 'A' and (A) $P(A \cap B) = 1$	'B' are said to be mut (B) P(A∩B)	•		(D)	$P(A \cup B) = 1$
	9-	Average affected by (A) arithmetic mean	extreme large values (B) geometric		median	(D)	mode
	10-	$\sum (y - \overline{y})^2 =$ (A) maximum	(B) least	(C)	zero	(D)	1
		. ,,	(-) 1000	(0)	347-(III)-1 st	. ,	

BUSINESS STATISTICS

Intermediate Part-II, Class 12th (1st A 424)

PAPER: II

(Commerce Group)

Time: 1:45 Hours

SUBJECTIVE COUJ-Y

Marks: 40

Note: Section I is compulsory. Attempt any Two (2) questions from Section II.

SECTION - I

2. Write short answers to any SIX (6) questions:

 $(2 \times 6 = 12)$

- i- What do you mean by data?
- ii- Explain the difference between population and sample.
- iii- Define variable with example.
- iv- What is classification?
- v- Define the class frequency.
- vi- Differentiate between the row caption and stub.
- vii- Write down two properties of random experiments.
- viii- What is mathematical probability?
 - ix- Define the sample points.

3. Write short answers to any SIX (6) questions:

 $(2 \times 6 = 12)$

- i- Give two merits of arithmetic mean.
- ii- If x = 50+10u, $\Sigma fu = 400$, $\Sigma f = 40$. Find \bar{x} .
- iii- Define median.
- iv- Write down the emperical relationship between mean, median and mode.
- v- Determine median if mean = 25, mode = 40.
- vi- Given that $n_1 = 10$, $\overline{x}_1 = 25$, $n_2 = 15$, $\overline{x}_2 = 20$. Find combined mean.
- vii- Explain weighted index number.
- viii- Computer Paasche's index number if $\sum p_n q_n = 2560$, $\sum p_o q_n = 2173$
- ix- Differentiate between price relatives and link relatives.

(Turn Over)

4

4

4

DECTION - 11

4 - (a) From the following frequency distribution, compute class marks, cumulative frequencies, relative frequencies and percentage frequencies:

40 - 50

10

 Classes
 10-20
 20-30
 30-40

 Frequency
 5
 15
 20

(b) Draw a histogram on the basis of following data:

Wages	1-5	6-10	11 – 15	16-20	21 – 25
No. of workers	15	25	30	20	10

5 - (a) Calculate arithmetic mean:

Groups:	1.5 - 2	2 - 2.5	2.5 - 3	3 - 3.5	3.5 – 4	4-45
f:	3	7	10	15	9	6

(b) Calculate mode from the following data:

Hourly wages:	4-6	7-9	10 – 12	13 – 15	16-18	19 – 21
f:	13	85	105	59	31	7

6 - (a) Compute the Index Number using simple aggregative method with 2015 as base year.

Commodities						
A	В	C	D	E		
100	90	15	30	105		
115	100	16		108		
120	101	17	 	120		
130	112	21		130		
145	140	30		135		
	115 120 130	A B 100 90 115 100 120 101 130 112	A B C 100 90 15 115 100 16 120 101 17 130 112 21	100 90 15 30 115 100 16 32 120 101 17 40 130 112 21 45		

- (b) Two dice are rolled together. Find the probability that:
 - i) The sum of two dots is 6.
 - ii) The sum of two dots is 9.