THE RESIDENCE OF THE PARTY OF T	Roll No.		
	Sig. of Cand	idate	

Answer Sheet No	54
Sig. of Invigilator.	

BUSINESS STATISTICS HSSC-II

= :	Section—A is compulsory. All parts of this section are to be answered on the question paper itself it should be completed in the first 15 minutes and handed over to the Centre Superintendent Deleting/overwriting is not allowed. Do not use lead pencil.						
(Circle the correct option i.e. A / B / C / D. Each part carries one mark.						
	(i)		stics must be:				
		A.	Comparable	В.	Not comparable		
		C.	Discrete in nature	D.	Qualitative in nature		
(ii)	A me	easure computed from sample	data is called:			
		A.	Parameter	В.	Statistic		
		C.	Statistics	D.	Data		
(i	iii)	The	process of arranging data into	rows and columns	is called:		
		A.	Array	В.	Classification		
		C.	Tabulation	D.	Frequency distribution		
(i	iv)	Grap	h of the frequency distribution	is:	•		
		A.	Histogram	В.	Ogive		
		C.	Historigram	D.	Pie-chart		
(v)	v)	In a s	symmetrical distribution mean,	median and mode	are always:		
		A.	Negative	В.	Different		
		C.	Unequal	D.	Equal		
(\	vi)	D = 1	x - A, means the change of:				
		A.	Scale	В.	Origin		
		C.	Origin and scale	D.	Unit of measurement		
(\	∕ii)	Lasp	eyer's index is also called:				
		, A.	Geometric mean of Paasch	e's and Fisher's in	dex		
		B.	Ideal index				
		C.	Current year weighted	•			
		D	Base year weighted	·			
(v	/iii)	Index	for base period is:				
		A.	One	B.	Fix		
		C.	100	D.	More than 100		
(i)	x)	When	n a die and a coin are rolled tog	gether, then the po	ssible outcomes are:		
		A.	6	B.	2		
		C.	12	D.	36		
(x	:)	The p	robability of sure event is:				
		A.	1	B.	100		
		C.	0	D.	0.5		
F	or Ex	amine	r's use only:				
					Marks: 10		

Marks Obtained:



BUSINESS STATISTICS HSSC-II

Time allowed: 2:15 Hours

Total Marks Sections B and C: 40

NOTE: Answer any eig

Answer any eight parts from Section 'B' and any two questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

SECTION - B (Marks 24)

- Q. 2 Attempt any EIGHT parts. The answer to each part should not exceed 3 to 4 lines. (8 x 3 = 24)
 - (i) What is a frequency distribution?
 - (ii) Define population and sample.
 - (iii) What is a pie-chart?
 - (iv) If l = 28, fm = 25, $f_1 = 20$, $f_2 = 18$ and h = 7, compute mode.
 - (v) Distinguish between variable and a constant.
 - (vi) Define mode.
 - (vii) In a certain distribution mean is 45 and mode is 50 then find median.
 - (viii) What is difference between fixed base and chain base method?
 - (ix) Compute index numbers by taking 1957 as base year:

Year	1955	1956	1957	1958	1959	1960	1961
Price	14	15	16	17	18	19	20

- (x) Define mutually exclusive events.
- (xi) Solve the following:

a. 8_{P_2}

 7_{c_i}

SECTION - C (Marks 16)

Note: Attempt any TWO questions. All questions carry equal marks.

 $(2 \times 8 = 16)$

- Q. 3 Calculate arithmetic mean by using:
 - a. Direct method
 - b. Step-deviation method

Marks	No. of Students	
30 – 39	1	
40 – 49	3	
50 – 59	11	
60 – 69	21	
70 – 79	43	
80 – 89	32	
90 – 99	9	

Q. 4 Calculate chain index numbers for the following data. Use median as an average:

Year	A	В	С	D
1958	94	98	82	122
1959	98	83	97	105
1960	96	87	95	107
1961	94	82	97	112

- Q. 5 From a pack of playing cards, a card is drawn at random, find the probability that the drawn card is:
 - a. An ace card
 - b. A red card
 - c. A king or a queen
 - d. A jack of clubs