

Note:- Section **B** is compulsory. Attempt any **Two** Questions from Section **C**.

SECTION-B

2. Write short answers to any Six parts. (6 x 2 = 12)

- i. Define inferential statistics.
 - ii. Define statistic and parameter.
 - iii. Difference between discrete and continuous variable.
 - iv. Define secondary data.
 - v. Write down any two properties of mean.
 - vi. Find $\bar{X}$ if $D = X - 50$, $\sum fD = 500$, $\sum f = 50$
 - vii. Compute median from the following data
-1, -2, 0, 3, 6, 4, 1, 5
 - viii. If $l = 28$, $f_m = 25$, $f_1 = 20$, $f_2 = 18$, $h = 7$. Find mode
 - ix. What is an average?
3. Write short answers to any Six parts. (6 x 2 = 12)
- i. What is tabulation?
 - ii. Mention the main parts of the table.
 - iii. Distinguish between one way and two way classification.
 - iv. Describe fixed base method for index number.
 - v. Give any two uses of index number.
 - vi. What is weighted index number?
 - vii. What are equally likely events?
 - viii. What are disjoint events?
 - ix. What is combination?

SECTION-C Each question carries 4 + 4 = 8 Marks

4.(a) Marks of 30 students in statistics are:

58, 40, 45, 60, 67, 49, 70, 73, 69, 47, 62, 68, 53, 60, 71, 54, 58, 61, 68, 43, 51, 57, 67, 44, 55, 63, 64, 48, 53, 56.

Prepare the frequency distribution with class interval of size 5 and 40 as lowest limit.

(b) Draw histogram for following data.

Class	Frequency
5-10	5
10-15	7
15-20	10
20-25	6
25-30	4
30-35	2

5.(a) Calculate Arithmetic Mean by using direct method.

Marks	30 – 39	40 – 49	50 – 59	60 – 69	70 – 79	80 – 89
No. of Students	1	3	11	18	12	5

(b) Compute median and mode for the following discrete distribution.

X	1	2	3	4	5	6
f	3	9	12	11	8	7

6.(a) Compute chain index number from the following data.

Years	1970	1971	1972	1973	1974	1975	1976
Prices	9	11	10	13	14.5	16	18

(b) A coin is tossed twice. Find the probability that.

- (i) Exactly one head appears (ii) Atleast one head appears

CANCELLED