## STATISTICSINTERMEDIATE PART-II (12th CLASS)PAPER- PracticalTIME ALLOWED: 3:00 Hours<br/>MAXIMUM MARKS: 30

Note: attempt any one question from each section Each question carries ten marks. Five marks are for viva voce and five marks are for the practical note book.

## **SECTION-I**

Q. No: 1Make all possible samples of size 2 with replacement from the population8,12,16,24. From sampling distribution of sample means and verify that(10)

(i) 
$$u_{\bar{x}} = \mu$$
 (ii)  $\sigma_{\bar{x}}^2 = \frac{\sigma^2}{n}$ 

Q. No: 2

Two random samples and taken from normal population yielded the following results. Find 95% confidence interval for  $\mu_1 - \mu_2$ . Also test the hypothesis that the true difference between the population means is 10. (10)

Samples	Size	Means	variance
Ι	12	10	1200
II	18	25	900

## **SECTION-II**

Q. No: 3

Compute the two regression coefficients and the correlation coefficient. (10)

X	25	30	35	42	55
Y	20	28	32	30	40

Q. No: 4

Find the trend values by the method of least squares.

(10)

Year	2000	2001	2002	2003	2004
Sale	29	51	75	61	65