Subject Code—2244

P.G.Diploma EXAMINATION

INDUSTRY SAFETY MANAGEMENT

PGDISM-05

Safety Statistics and Accidents Inspection

Time : 3 Hours   *Maximum Marks : 100*

Note : Attempt any *Five* questions. All questions carry equal marks.

1. Define Statistics. Explain the applications and limitations of statistics in Industrial safety management.

2. What do you mean by measures of Central tendency ? Explain the essentials of a good average.

3. From the following data calculate Karl Pearson's coefficient of correlation :

   X : 10   20   30   40   50   60   70

   Y : 18   16   14   12   10   8   6

4. What do you mean by Regression Analysis ? Explain the importance and uses of regression analysis.

5. What do you mean by Time Series ? Explain the components of time series in detail.

6. What do you mean by Central Charts ? Explain the X and R charts in detail.

7. (a) The mean yield of two sets of plots and their variability are given below :

	Set of 40 plots	Set of 60 plots
Mean yield (per plot)	1258 kg	1243 kg
S.D. (per plot)	34	28

   Examine whether the difference in the mean fields of the two sets of plots is significant at 5% level of significance.

(b) Explain the properties of bionomial distribution.

8. What do you mean by Reporting ? Explain the reporting procedure of accident investigation and following up recommendations.