

13. A bag contains 6 white, 7 red and 8 black balls. Three balls are drawn at random. What is the change that a white, red and a black ball is drawn.

Or

Discuss the applications of Chi-square test giving suitable illustrations. **11**

Roll No.

Exam Code : J-19

Subject Code—0865

**P. G. Diploma in Industry Safety
Management EXAMINATION**

(Batch 2009 to 2017 Reappear)

**SAFETY STATISTICS AND ACCIDENT
INSPECTION**

PGDISM-05

Time : 3 Hours

Maximum Marks : 70

Section A

Note : Attempt any *Seven* questions. **7×5=35**

1. Discuss applications of Statistics.
2. Explain the concept of mode.
3. Discuss the concept of standard deviation.
4. What do you mean by probability distribution ?

5. What are the properties of Poisson Distribution ?
6. Discuss the concept of regression.
7. Explain multiplication law of probability.
8. Explain the concept of p chart.
9. What is the usefulness of safety check list ?
10. Discuss various techniques of accident reporting.

Section B

Note : Attempt all the questions.

11. The following table gives age (X) in years of cars and annual maintenance cost (Y) (in hundred rupees) :

X :	1	3	5	7	9
Y :	15	18	21	23	22

Estimate the maintenance cost for a 4-year-old car after finding the regression equation.

Or

Discuss the applications and properties of Binomial distribution. **12**

12. Discuss the applications of F test giving suitable illustrations.

Or

Two batsman A and B made the following scores in a series of cricket matches :

A	B
14	37
13	22
26	56
53	52
17	14
29	10
79	37
36	48
84	20
49	4

Who is more consistent player ? **12**