

INDIAN INSTITUTION OF INDUSTRIAL ENGINEERING GRADUATESHIP EXAMINATION

Section-A
Time: 3 hrs.

August 2018
Max. Marks: 100

IEA 01 – PROBABILITY AND STATISTICAL METHODS

- Notes:**
1. Answer any five questions. Each question carries 20 marks.
 2. Answer in brief and to the point.
 3. Use of probability and statistical tables are permitted.

- Q1. (A) Write a short note on central limit theorem. (05)
- (B) Explain briefly the general procedure of testing the appropriateness of a distribution. (05)
- (C) What is Design of Experiments? Explain with a suitable example. (10)

- Q2. (A) In an experiment on immunization of cattle from Tuberculosis the following results were obtained. (10)

	Affected	Not Affected	Total
Affected	267	27	294
Not Affected	757	155	912
Total	1024	182	1206

Use Chi-square test to determine the efficacy of vaccine in preventing tuberculosis.

- (B) Present an overview of SPSS package along with its features, applications, advantages and limitations. (10)
- Q3. (A) A lot containing 7 components is sampled by a quality inspector, the lot contains 4 good components and 3 defective components. A sample of 3 is taken by the inspector. Find the expected value of the number of good components in this sample. (10)
- (B) In a certain factory turning out blades, there is a small chance $1/500$ for any blade to be defective. The blades are supplied in packets of 10. Use the Poisson distribution to calculate the approximate number of packets

Question Paper For Iie Exam

Judd E. Hollander



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