From:
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To
The Registrar
Andhra University
Visakhaapatnam

Sir,


I P. Gandhi, Lecturer in Statistics, Mrs. AVN College, Visakhaapatnam, and also Chairman Board of Studies A.U., wish to send you a model question paper on Second Semester Statistics under CRC System.

Thanking you Sir,

Yours faithfully,

(P. Gandhi)
5. Explain additive property of Poisson distribution.

6. Define geometric distribution, obtain mean and variance.

7. Explain memoryless property of exponential distribution.

8. Define Beta’s kind of distribution, obtain mean and variance.

SECTION - B

(5x10 = 50 marks)

Answer the following (one from each unit).

UNIT - I

9. State and prove Boole’s inequality.

or

10. The contents of urns I, II, III are as follows:
    1 white, 2 black and 3 red balls,
    2 white, 1 black and 1 red balls, and
    4 white, 5 black and 3 red balls.

One urn is chosen at random and two balls drawn from it. They happen to be white and red. What is the probability that they come from urns I, II or III?
15. Define Binomial distribution, obtain its m.g.f., C.F., C.G.F. and p.g.f. mean and variance.


17. Define Gamma distribution, obtain m.g.f. and its mean and variance.

18. Define normal distribution and explain the chief characteristics of the normal distribution.

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