[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper: 3699

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Unique Paper Code : 6202451203

Name of the Paper : Mathematics for computing -II

Name of the Course : B.Voc.

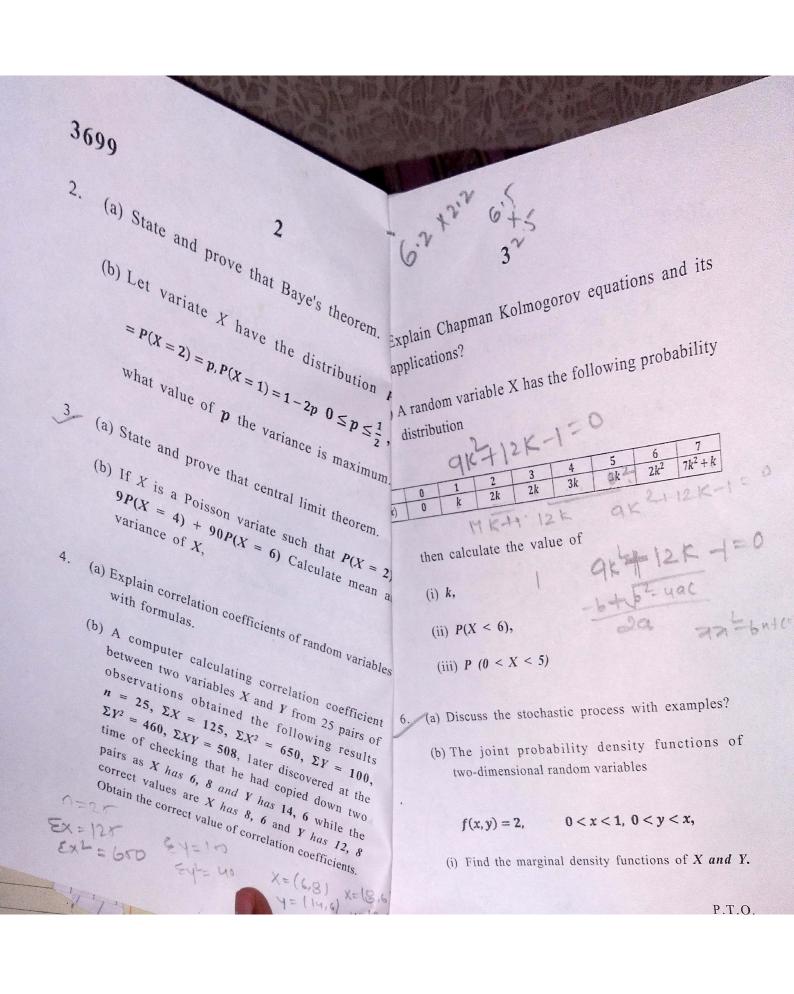
Semester : II

Duration: 3 Hours Maximum Marks: 90

## Instructions for Candidates

- 1. Write your Roll No. on the top immediately on receipt of this question paper.
- 2. Attempt any 5 questions.
- 3. All questions carry equal marks.
- (a) Define sample space and mutually exclusive events with example.
  - (b) Prove that probability of impossible event is zero.

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- (ii) Find the conditional density functions of Y given X = x, and conditional density functions of X given Y = y.
- (a) A problem in Statistics is given to the three students A, B and C whose chances of solving it are 1 / 2,3 /4, and 1 /4 respectively. What is, the probability that the problem will be solved if all of them try independently?
  - (b) A random variable X has a mean value of 5 and variance of 3, what is the least value of probability |X - 5| < 3.

P(1X-513)=1-==