Roll No. ..... [ Total No. of Pages : 4

## BC-2875

## B. C. A. (Third Semester) EXAMINATION, 2020

S- X - ELEMENTS OF STATISTICS

, Time : Three Hours Maximum Marks : 75

Note : Attempt questions from both Sections as directed.

## Section—A

## (Short Answer Type Questions)

Note : Attempt any ten questions. Each questioncarries 3 marks.10×3=30

Define Permutation — 2
Define population with an example. — D
What do you understand by a frequency distribution? — D

P. T. O.

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14. What do you understand by Statistical Quality 15. Explain about process and product control.--13. Define conditional probability. 41. Define sample space with example. Generations of the observations K. Define mutually exclusive events. Contractions Define range of a set of observations. Calculate standard deviation of the K How many two letter word can be made from  $\star$  Define arithmetic mean of a frequency  $\vee$ What do you understand by Central tendency Control? --(2) the word 'JHANSI' ? observations : distribution. of data? -- () 5, 5, 5, 5, 5, 5 - × -0 7, 7, 7, 7, 7 [2] BC-2875 1 Calculate coefficient of variation for the given Note : Attempt any three questions. Each question 1. Calculate mode for the given frequency frequency distribution : distribution : **Class Interval** carries 15 marks. **Class Interval** 60-70 40-50 10-20 50-60 20 - 3030-35 30 - 4020-25 (Long Answer Type Questions) 25-30 10 15-20 10-15 5-10 J Section-B [3] Frequency (f) Frequency ()

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3×15=45

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- (a) Calculate how many three-digit numbers can be framed from the number 3754.
  (b) Three coins are thrown together. Find the
  - probability that the result give at least two heads.

A. Two dice are thrown together. Then obtain the probability that the sum of the numbers occurred on both the dices is either 9 or 11.
Explain in brief about appropriate chart for 'number for defectives' with control limits.

