#### C. ABDUL HAKEEM COLLEGE (AUTONOMOUS), **SEMESTER EXAMINATIONS, NOVEMBER - 2018** MELVISHARAM - 632 509

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SEMESTER V I)

Time: Three Hours	
Maximum: 60 Marks	

# SECTION - A (10 X 1 = 10 Marks)

## Answer ALL Questions

- 1. 'Statistics may be called the science of counting' is the definition given by
- c) Boddington
- d) Webster b) A.L. Bowley
- 2. The Process of getting values and facts from an observation or experiment is called.
- a) Collection of data
- b) Tabulation of data
- c) Classification of data
- d) All the above
- 3. The formula of Arithmetic mean is
- a) Log Gm=  $\sum \log x/N$
- b)  $HM = N/\sum 1/X$

d)  $\bar{X} = \sum X^2/N$ 

c)  $\bar{X} = \sum X/N$ 

- 4. Sum of the deviations about mean is
- b) minimum
- c) maximum
- 5. Which of the following is a unitless measure of dispersion?
- a) Standard deviation
- b) Mean deviation

- c) Coefficient of variation
- d) Range
- is the different between the lowest value & highest value of a set of data
- a) Average
- b) Range
- c) Mean
- d) Median

- is the proportion of times an event occurs in a set of trials
- a) Probability
- c) Coefficient of Variation d) Standard deviation
- Quartile deviation is method
- a) Measures of variation

b) Measures of central tendency

- c) Measures of deviation d) Measures of dispersion
- Correlation coefficient as independent of change of
- a) Origin b) Scale
- c) Origin and Scale
- d) None
- If the ratio of change between two variables is uniform, then the Correlation is said to be
- a) Partial Correlation
- b) Negative Correlation
- c) Linear Correlation
- d) None of these

## SECTION - B (5 $\times$ 4 = 20 Marks)

### Answer ALL Questions.

- a) Discuss the nature and scope of Statistical Method
- b) Explain the general rules for constructing diagrams
- a) Give the merits and demerits of median

b) Find median for the following data: 25, 18, 27, 10, 8, 30, 42, 20, 53.

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13. a) The length of 60 fruits of chilli varieties are given below calculate the Standard Deviation.

သ	7	10	20	12	∞	No of fruits
60	50	40	30	20	10	Length (in mm)

(Or)

- b) Give an account on Variance.
- 14. a) The weight of fishes shows the range of variable 88gms in the first Quartile
- $(Q_1)$  and 93gms in the third Quartile  $(Q_3)$ . Find out the Quartile deviation.

(Or

- b) Write a note on Probability.
- 15. a) Define Karl Pearson's coefficient of correlation. Interpret r, when r = +1, -1 and 0.

(Or)

b) Discuss about Linear and Non-Linear Correlation.

SECTION - C (3 X 10 = 30 Marks)

Answer ANY THREE Questions

- Explain about the Diagrammatic representation of data.
- 17. Give an account on characteristics of good average and a note on mode.
- 8. Calculate Standard deviation.

The following data are the height of 10 Students.

- Explain the kinds theorems and basic concepts of Probability.
- 20. Define correlation and mention the uses of kinds of Correlation.

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