KAVIKULAGURU KALIDAS SANSKRIT VISHWAVIDYALAYA, RAMTEK
Bachelor of Computer Application (BCA) (New)
First Semester Examination
Paper VII – Fundamental of Statistic

Time – 3 hrs.   **Total Marks - 80**

Note – All questions are compulsory and carry equal marks.

Q.1   Long answer. (any **one** out of two)   **01x12=12**

a)   Write the definition of statistics and also discuss the limitations of statistics and various functions of statistics.

b)   What is frequency and frequency distribution? What are the reasons for constructing frequency distributions and explain the various types of it.

Q.2   Long answer. (any **one** out of two)   **01x12=12**

a)   What is Geometric mean? Write it's properties, limitations and Applications. Describe the method of calculating geometric mean for individual, discrete, continuous series.

b)   Discuss the types of measures of central tendency. What are the requisites for ideal measures of central tendency? Also list the various application of it.

Q.3   Long answer. (any **one** out of two)   **01x12=12**

a)   What is range? Write it's advantages and disadvantages. Also discuss the co-efficient of range and describe the method of calculating range.

b)   What is quartile? Define the quartile deviation and co-efficient of quartile deviation. Compute Quartile Deviation and co-efficient of quartile Deviation for the following data.
24,14,21,100,104,68,34,106,100,72,16,21,14,21,72, 100,106,34,100

Q.4   Long answer. (any **one** out of two)   01x12=12
   a)   What is correlation? Explain the types of correlation. And it's significance.
   b)   Define Karl Pearson's coefficient of correlation with it's properties advantages and disadvantages. How Karl Pearson's coefficient of correlation can be calculated?

Q.5   Short notes. (any **four** out of six)   04x05=20
   a)   Write a short note on Tabulation.
   b)   Write a note on weighted Average.
   c)   Write a short note on standard deviations.
   d)   Write a short note on significance of correlation.
   e)   Short note on -
      i) line of regression
      ii) Regression curve
   f)   Write a short note on -
      i) Variance
      ii) Coefficient of variance

Q.6   Short Answer. (all questions are compulsory)   06x02=12
   a)   Give a note on "Distrust of Statistics".
   b)   Short note on Harmonic mean.
   c)   Write a short note on Dispersion.
   d)   Short note on Regression Analysis.
   e)   Short note on Central Tendency.
   f)   Write a short note on Arithmatic mean.

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