



KN-5875

Seat No. _____

B.Sc. (Sem. III) Examination

November / December – 2014

Biotechnology : Paper : EC-01 - (Biostatistics)

Time : 2 Hours]

[Total Marks : 50

1. Attempt any seven: **1x7=7**

1. Number of children in household is _____ data.
(Qualitative / Quantitative)
2. _____ is used when dealing with rates & speeds.
(Harmonic mean / Geometric mean / Arithmetic mean)
3. Define measure of central tendency.
4. The _____ is particularly useful in study of popular sizes. (Median/Mode)
5. What is data?
6. The value of median can be determined graphically with the help of _____.
(Histogram, Bar diagram, Ogive)
7. Write down the full form of ANOVA.
8. Write down two most popular methods for collection of primary data.

2. Attempt any three:

3x3=9

1. A migratory bird migrates from feeding place to breeding place at a speed of 50 km/hour & returns at the speed of 70 km/hour. Calculate Harmonic mean.

2. Describe qualitative and quantitative data, with the help of examples.
 3. Write a short note on Tabulation of data.
 4. Explain binomial distribution.
3. Attempt any four: **6x4=20**
1. Describe graphical representation of data.
 2. Calculate mean, mode, median for following data.
25, 23, 15, 40, 27, 25, 23, 25, 20, 25
 3. Explain merits and demerits of Mode & Median.
 4. Define Biostatistics and give its applications in biotechnology.
 5. Explain Student's T test.
4. Attempt any two: **2x7=14**
1. What is sampling? Enlist various sampling methods & explain any three sampling methods.
 2. Write a short note on collection of data in biostatistics.
 3. Describe measure of dispersion.
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