**STA301 - Fall 2022.**

**ASSIGNMENT # 01.**

Name: Abdul Rehman.

VU ID: BC220424444.

**Answer 1:**

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| **X** | **f** | **f/X** |
| 125 | 3 | **3/125 = 0.024** |
| 130 | 5 | **3/130 = 0.0385** |
| 135 | 8 | **8/135 = 0.0593** |
| 140 | 9 | **140/9 = 0.0643** |
| 145 | 3 | **145/3 = 0.0207** |
|  |  |  |

By applying Harmonic Mean Formula:

**H.M = **

**H.M = 135.39 Answer.**

**Answer 2:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Class Limits** | **Frequency** | **Cumulative Frequency** | **Class Boundaries** |
| 1-5 | 5 | **5** | **0.5 - 5.5** |
| 6-10 | 12 | **5 + 12 = 17** | **5.5 - 10.5** |
| 11-15 | 18 | **17 + 18= 35** | **10.5 - 15.5** |
| 16-20 | 20 | **35 + 20= 55** | **15.5 - 20.5** |
| 21-25 | 10 | **55 + 10= 65** | **20.5 - 25.5** |

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**Solving Q1:**

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**Solving Q2:**

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Putting the values in equation:

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**Solving Q3:**

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Putting the values in equation:

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Formula of Bowley’s Coefficients of Skewness:



Now by putting value in Formula we get:







**Bowley’s Coefficients of Skewness = -0.055 Answer.**

**Answer 3:**

**Given: **

Now we are going to calculate moments about mean.

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**Hence solved.**