STATISTICAL APPLICATION.

Dig ital assingnment-3

REG No: 19BCS0012

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I've find the rank correlation coefficient for the following.

| 7 | (| di'd | 60 | 72 | 62 | 56 | 40 | 39 | 51 | 300 | × |
|---|---|------|----|-----|----|----|----|----|----|-----|---|
| 1 | Y | 62 | 49 | the | 40 | 88 | 54 | 60 | 32 | 3 | |

| X | 1 1 | Rank[19] | Rany [Y] | 9 | 95 |
|----|-----|----------|----------|----|------------|
| 47 | 62 | 6 | 4 | 2 | 4 |
| 60 | 79 | 3 | 1 | 2 | 4 |
| Ŧ2 | 69 | 1 | 3 | -2 | 4 |
| 62 | 70 | 2 | 2 | 0 | 0 |
| | 38 | 4 | 7 | -3 | 9 |
| do | | 7 | Ь | 1 | 1 |
| 39 | 66 | 8 | 8 | 3 | 9 |
| 51 | 32 | 5 | 8 | +3 | 9 |
| 30 | 31 | 9 | 9 | 0 | 9 |
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dd=20 n=9 2=1-6Ed2 => 1-240/729-9 ≥ 1-0.33 [1=0.64] Rank correlation of coefficient is 0.6667 27 Calculate the mean median mode and Handard deviation of the following frequency distribution. 5-15 15-25 25-35 35-45 15-58 12 14 frequency 16 10-72 5-15 35-45

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lower limit III = 25 frequency of model class (f) = 14 Pre median Massem 1 = 20 fo - 12 f2 = 9 c= 10 N= h9 mean = A + Edd xc 30+ (-7) X10 3 30-10/7 mean 2 = 28.57 median: modian = la [N/2 -M] x c 25+ 24·5-20 Xw

255 + 3 × 10 mode = 24.857

Handord doviation:

A √ 77 - (-1/5) 2 ×10

385-49 X 10 => V13.44 X10

=) 3166 ×10 => 36.6

(8) Write a stort note on scale:

Scale: Scale: 1913,000 to history of oldoirou In statistics, the variables or number are defined and categorized using -different scales of measurements Each level of measurements scale has Specific proporties that determine the various use of Hatistices analyis in this article, we will bearn four of scales such as.

*> Interval * Nominal *) Otdinal *) Ratio Scale

& scale is a device or an objects used to measure or quantify any evant 191 parother abject.

Nominal Scale:

The nominal Scale of measurement only satisfy the identity property of measurement Natures rassingned to Valiable represent a descriptive coatogory but have no inherent numeric value with respect to magnitude

Ordinal scale:-

The ordinal scale has the property of both identity and magnitude each Values on the ordinal Scale hasa unique meaning and it has an ordered relationship to only others value on

the scoole.

Interval & code:

the interval scale of measurements to the properties objectedity, magnitude and equal intervals with an internal scale, you not only know whother different values are bigger or smaller you also know how much bigger on smaller toy are.

Ratio Scale:

the Ratio scale of measurement strafies all form of the Postpeties.

of measurement, identity, magnitude equal interval and a minimum value of major.