

| Q5. | Create a box plot for plants: | llowing datas | ws the height of ten | 4 | $\mathrm{CO2}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { SECTION B } \\ (4 \mathrm{Qx} 10 \mathrm{M}=40 \text { Marks }) \end{gathered}$ |  |  |  |  |  |
| Q1. | Explain the research process methodology with supporting diagram. OR <br> Describe the different types of Analytics with the help of suitable diagram |  |  | 10 | $\mathrm{CO1}$ |
| Q2. | A random sample of ten scores obtained by the students in a Math test are as follows: $2,16,3,10,11,4,6,7,9,12$. Determine $90 \%$ confidence limits for the mean of the whole sample. |  |  | 10 | $\mathrm{CO3}$ |
| Q3. | Determine if there is a difference in the mean daily calcium intake for people with normal bone density, osteopenia, and osteoporosis at a 0.05 alpha level using ANOVA Test. The data was recorded as follows: |  |  | 10 | $\mathrm{CO4}$ |
|  | Normal Density | Osteopenia | Osteoporosis |  |  |
|  | 1200 | 1000 | 890 |  |  |
|  | 1000 | 1100 | 650 |  |  |
|  | 980 | 700 | 1100 |  |  |
|  | 900 | 800 | 900 |  |  |



|  |  | 86 | 64 | 100 | 250 |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Q2. | With the help of a suitable diagram explain the following terms: <br> (4 marks each) <br> 1. Significance level <br> 2. Critical Region <br> 3. Critical Value <br> 4. Confidence Interval <br> 5. P-Value |  |  |  |  |  |

