



**Q1:** A// Count all types of data (variables) with provide an example for each types. [6+6 Mark]

B// What is methods of collection the data in statistics?

**Q2:** Calculate the **rank correlation** coefficient between the Math and Statistics tests for 5 students. Analysis and explain the results. [12 Mark]

<b>Calculus</b>	Good	Medium	Excellent	Satisfy	Very Good
<b>Statistics</b>	Medium	Very Good	Good	Excellent	Satisfy

**Q3:** From the following data represents the degree for some students in two modules: [12 Mark]

**English**            95, 75, 84, 72, 92, 40, 68, 65, 73

**Statistics**        74, 80, 86, 68, 72, 82, 71, 63, 68

**Compute:** 1- Coefficient Variation for both **English & Mathematic**, then compare results.

2- Median for both modules            3-  $\bar{X} + \sum_{i=1}^n Y_i$

**Q4:** From the following information: [8 +4 Mark]

$$\sum X = 150 \quad \sum Y = 195 \quad \sum XY = 6800 \quad n=5 \quad \sum X^2 = 5500$$

**Find** 1- Simple regression equation.            2- Predict  $\hat{Y}$  when  $X_{\text{new}} = 16$ .

**Q5:**The bellow data represents the heights of thirty-two students [12 Mark]

280	285	265	260	259	280	190	285	280	284	288	265	281	289	282	284
269	289	261	281	259	268	287	264	191	258	283	281	258	257	280	262

**Find** (1) Create table frequency.    (2) Percentage from Table.    (3) Arithmetic mean