Q1/ A- We obtain Virus infected plants: 30, 18, 26, 35, 37, 29, 50, 21, 43, 40
Compute C.V% and $S_{\bar{x}}$ then test the accuracy of data.

B- Explain the type of the following variables:

Leaf color	
pH value	
Temperature	
low, medium & high	
Blood types	
No. of eggs	

C- What are the benefits of (SE)?

Q2/A/ Answer two of the following questions
1- What is the F-test (fisher test)? explain briefly
2- What are S.O.V and ANOVA Table?
3- What's the differences between quantitative and qualitative variable?

B/ List the functions of statistics or what are the functions of statistics?

Q3/ in certain food experiment to compare two types of baby foods A and B, the following results of increase in weight we observed in 8 children as follows:
Examine the significance at LS =0.05

Food (A)	Food (B)	
49	52	
53	55	
51	52	
51	52	SD = 1.31
47	50	
50	54	
52	54	
53	53	

Note: $t_{(7)\,0.05} = 2.365$, $t_{(8)\,0.01} = 3.355$

Q4/ Complete the table below, when you know number of treats = 5 and total df =24

S.O.V.	df	SS	MS	Cal. F	Tab.F(0.05)
Treat		80		10	2.87
Error					

Q5/ The following table represent the height of 26 plants; complete freq. distribution table then draw histogram or Pie chart:

Height	Freq.	R.f	P.f %	Pie chart value (Angle degree)
12-15	5		19.23	69.23
16-19	F1+1			
	5			
	5			
	?			
	2			

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