SHREE DHANVANTARY PHARMACY COLLEGE, KIM

Internal Test – 2009

F. Y. B. Pharm

Subject: - Bio-Statistics

Hours:-1(one) **Total Marks:-20**

Q -1:- Explain the method of scatter diagram of determining the types of correlation. (4)

OR

Q -1:- Explain the method of simple random sampling.

Q -2:- Answer the following questions. (Any Four) (16)

a) A population consists of 5 units with values 1, 2, 3, 4, 5. Write down the possible sample of size 2 without replacement and prove that $E(\bar{y})=\bar{Y}$

b) Calculate the co-efficient of correlation by Karl Pearson's method.

x	24	27	31	32	20	25	33	30	28	22
y	11	08	05	03	13	10	02	07	09	02

c) Calculate the rank correlation.

x	60	72	42	40	45	50	60	61	66
y	35	30	52	60	48	50	36	35	22

d) Find out the both regression lines. Find out the value of x when y=45.

	x	y
Mean	25	40
s. d.	03	06
r=0.8		

[P.T.O.]

e) The yields of 3 types of a particular food – grain are as shown below.

Types of food grain	Plot number			
	I.	II.	III.	IV.
A	3	3	4	1
B	2	4	4	6
C	6	5	3	7

Test the significance of the difference in the yields of 3 types of food grain. [Using Analysis Of Variance (ANOVA)]