LOYOLA COLLEGE (AUT	ONOMOUS), CHEN	NAI – 600 034
M.Sc. DEGREE EXA	AMINATION – ZOOLOG Y	ſ
SECOND SEME	STER – APRIL 2010	
ZO 2956 - I	BIOSTATISTICS	
Date & Time: 23/04/2010 / 1:00 - 4:00 Dept. No.		Max. : 100 Marks
Answer ALL the questions	PAKI - A 10 x 2	= 20 Marks
	10 A 2 ·	- 20 Walks
1. What is regression equation?		
2. Differentiate hypothesis from null hypothesis fr	othesis.	
3. What is standard deviation?		
4. What is meant by degree of freedom?		
5. What is scatter point?		
6. What is the significance of histogram?		
7. Define range.		
8. Explain binomial equation.		
9. How is data collected?		
10. Denne mean.		
PA	RT – B	
Answer any FOUR of the following	4 x 10	= 40 Marks
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11. What are the different kinds of diagram	ns?	
12. Explain the components of a table?		
13. Draw a pie diagram for the following d	ata and write its significance	е.
Mercury	7	
copper	9	
Iron	21	
Zinc		
Lead	/	

- 14. Differentiate skewness from kurtosis.
- 15. Comment on co-efficient of correlation.
- 16. Calculate the Chi square for the following table and find if there is any significance between RBC and Hb.

RBC Count	Hb Below Normal	Hb Above Normal
Below Normal	70	110
Above Normal	140	150

PART – C

2 x 20 = 40 Marks

- Answer any **TWO** of the following
 - 17. The following table shows the effectiveness of anti–biotics (X) in killing virus (Y). Find regression equation X on Y. When Y=9, 5

Antibiotics (X)	9	11	14	16	21
Virus (Y)	7	4	9	11	15

Describe the different graphs and diagrams in bio statistical representation of data.
Draw histogram, polygon and cumulative frequency of the following data.

Wt (gm)	1.1-3.0	3.1-6.0	6.1-9.0	9.1-12.0	12.1-15	15.1-18
Frequency	9	13	27	11	9	7

20. By ANOVA find if there is an increase in wheat production in different sub species in different plots. Table value=3.49

Α	В	С	D
4	1	5	10
1	11	4	9
9	13	7	9
4	3	0	4
