Total No. of Sections:
.: B03/205
r Examination
I.Sc.
DLOGY
aper II
statistics]
[ Maximum Marks : 80 [ Min. Passing Marks : 10
th question in each unit consist er Type Questions which are to or two sentences. Part C (Shor ach question will be answered t D (Long Answer Type) of each answered within the word limi
nit-I
and Secondary data.
on?
ent parts of the table.

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Or

What is histogram? Draw a histogram for the given data.

(D) Explain the kinds of diagram with suitable examples. 12

Or

Write an essay on different methods of graphical presentation of data.

## Unit-II

- 2. (A) Define the Arithmetic mean. 2
  - (B) Write the merits and demerits of Medians. 2
  - (C) Hb % of an animal was recorded as 6, 7, 4, 5, 5,3 and 4 gm/100 ml. Calculate the median. 4

Or

Determine mode from the following data:

50 62 48 50	63 65	50 48	43	62	50	50
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(B) What is regression?

- 2
- (C) Explain equi-probable events with suitable example.

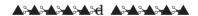
Or

What is one way classification? Write the principle and formula of one way ANOVA.

(D) What is linear and non-linear correlation? Explain with suitable example. 12

Or

A card is drawn from a pack of playing cards and then another card is drawn without the first being replaced. Calculate the probability of drawing 2 spades?



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efficacy against typhoid. The result are given below. Find out the effectiveness of the drug against the disease. The total value of  $\chi^2$  for 1 df at 5% level of significance is 3.84.

Administering the drug	Typhoid	No typhoid	Total	
Administering the drug	200	300	500	
Without administering	280	20	300	
the drug	280	20	300	

### Or

Two diets are compared by conducting an experiment on two samples of 40 and 50 animals. The averages for the increase in weight due to the diets A and B are 10 and 12 lbs. with SD  $S_2$  and 2.5 lbs respectively. Is the difference between the averages for the increase a weight significant.

# Unit-IV

**4.** (A) Write the name of any two methods of studying correlation.

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(D) From the following find out the mean: 12

Marks	10-20	20-30	30-40	40-50	50-60	60-70	70-80
No. of Students	10	18	20	26	30	28	18

### Or

What do you understand by Central Tendency? Explain it with their types and suitable examples.

#### Unit-III

- 3. (A) Write different types of Hypothesis. 2
  - (B) Write the uses of standard error of mean. 2
  - (C) Size of 5 fishes in cm are 2, 3, 5, 4, 1 respectively. Obtained standard error of standard deviation of the given ungrouped data.

### Or

What do you mean by student *t* test? Mention formula to obtain *t* ratio.

(D) A certain drug was administered to 500 people out of 800 included in the sample to test its