

**M.D. (SIDHA) DEGREE EXAMINATION
FIRST YEAR**

**BRANCH VI – NANJU NOOLUM MARUTHUVA NEETHI NOOLUM
PAPER V – BIO-STATISTICS**

Q.P. Code : 322160

Time: Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Blood Urea level of 20 patients each tested for efficacy of two drugs is as follows

Drug-1	36	40	42	38	37	55	44	46
	28	16	34	56	42	43	32	28
	26	28	26	36				
Drug-2	28	58	39	56	59	38	37	36
	48	43	48	52	56	41	44	28
	50	41	39	38				

- a) Determine Mean and Standard deviation for two treatments.
 - b) Apply suitable statistical significance test and say whether two treatment effects are equal ($t=2.02$ for 38 d.f.)
2. a) Different Phases of Clinical Studies for testing new Siddha Medicine.
 - b) Publication of an Article format and its contents.

II. Write notes on:

(10 x 6 = 60)

1. Importance of Data collection and documentation.
2. Mean and Median.
3. Application of Probability.
4. Sampling and Non Sampling Errors.
5. Correlation.
6. Birth Rate, Death Rate, Growth Rate.
7. Type-I and Type-II errors.
8. Research and types of research.
9. Chi-Square test.
10. Role of IEC in research.
