

**M.D. (SIDDHA) 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. HbA1c level and Tea consumption status of population in a town

	HbA1c			
Tea consumption (Number of cups)	<6%	6-7%	7-8%	8-9%
< 4	800	100	50	10
< 6	300	75	30	10
≥ 6	200	150	50	20

Apply chi-square test and determine the significance of association between HbA1c and Tea consumption by specifying the procedures for test of significance.

2. Height in cm of 30 students is as follows

Height	155	158	160	170	160	175	180	156
	165	152	154	164	166	170	175	172
	170	164	168	154	155	148	163	166
	160	145	158	180	165	166		

- a) Calculate mean and standard deviation.
- b) Calculate 95% and 99% confidence interval.
- c) Calculate median and mode.
- d) Determine whether it is symmetrical.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Types of data with examples.
2. Box plot diagram.
3. Lottery methods and Random number method for Sampling.
4. Merits and Demerits of Mean, Median and Mode.
5. ANOVA.
6. Confidence Interval.
7. Vital Statistics.
8. Hospital Statistics.
9. Role of IEC in clinical research.
10. Importance of Sample size.

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