APPENDIX NO. 7

FORMULAE USED FOR STATISTICAL **ANALYSIS**

1. Mean
$$= \frac{\sum X}{N}$$

N = Sample Size

 $\sum X = Summation of Score$

2. Standard Deviation

$$6 \text{ or S.D.} = \sqrt{\frac{\sum X^2}{N}}$$

 X^2 = Square of score

$$t = \underline{D}$$

D = Difference of mean in two test

 $\delta D = Standard error$

4.
$$df = N-1$$

df = degrees of freedom.

5. Correlation Coefficient

$$r = \frac{\sum X'Y'}{N} - C_{2}C_{\gamma}$$

Where
$$C X = \frac{\sum f x'}{N}$$
 $C y = \frac{\sum f y'}{N}$

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$$C X = \frac{\sum f x'}{N}$$
 $C y = \frac{\sum f y'}{N}$

$$6'_{x} = \sqrt{\frac{\sum f x'^{2} - C^{2}x}{N}}$$

$$6'_{y} = \sqrt{\frac{\sum f y'^{2} - C^{2}y}{N}}$$
Where
$$\sum X'Y' = \text{Sum of cross products of variables } X \text{ and } Y$$