

ASSIGNMENT-5

1-A die is thrown 90 times with the following results:

Face:	1	2	3	4	5	6	Total
Frequency:	10	12	16	14	18	20	90

Use χ^2 -test to test whether these data are consistent with the hypothesis that die is unbiased.

Given $\chi^2_{0.05} = 11.07$ for 5 degrees of freedom.

2- Assuming 5-yearly moving averages, calculate trend values from the data below and draw approximately on answer sheet:

Years	1971	1972	1973	1974	1975	1976	1977
Production ('000 tons')	105	107	109	112	114	116	118

Years	1978	1979	1980	1981	1982	1983
Production ('000 tons')	121	123	124	125	127	129

3- Write short note on-

- (i) T-test
- (ii) F-test

4- Write short note on-

- (I) Moving Average
- (II) Frequency Chart

5- Define-

- (i) Chi-square test
- (ii) t-test, F-Test