

PROBABILITY & QUEUEING THEORY

DISCLAIMER: I'M NOT RESPONSIBLE IF QUESTIONS FROM EXAM ARE NOT RELEVANT TO THE CONCEPTS MENTIONED BELOW..
ELLARUM ENNA UNGA VEETU PULLAYA NENACHU MANICHIRUNGA!! 😬 😬

IMPORTANT CONCEPTS:

UNIT 01 -

- PDF & CDF (4M & 12M)
- MEAN, VARIANCE, SD (4M)
- MGF DERIVATION (12M)
- MGF PROBLEMS (4M)
- TCHEBYCHEFF'S INEQUALITY (12M) {DICE THROWN...}

UNIT 02 -

- DERIVATION OF MEAN / VARIANCE / SD / MGF - BINOMIAL, POISSON (12M)
- PROBLEMS ON ANY DISTRIBUTIONS - BINOMIAL / POISSON / NORMAL DISTRIBUTION (12M)

UNIT 03 -

- T-TEST (4M)
- Z-TEST (12M)

UNIT 04 -

- F-TEST (4M)
- CHI SQUARED TEST (12M)
- QUEUEING THEORY (12M) {READ ALL FORMULAS - PROBLEMS ENTIRELY BASED ON FORMULAS}

UNIT 05 -

- MARKOV CHAIN DISTRIBUTION (4M) {STATES & RELATED PARAMETERS}
- TPM (12M) {BARBER SHOP..., MAN EITHER DRIVES..., THREE PEOPLE THROWING A BALL..., GAMBLER HAS...}

NOTE -

- 1) READ ALL THE FORMULAS FROM ALL UNITS THOROUGHLY (SINCE FORMULA ITSELF CARRIES 1 OR 2 MARKS AND CAN BE ASKED IN MCQs)
- 2) DON'T FORGET TO TAKE A PRINTOUT OF STATISTIC TABLE TO EXAM HALL (WITHOUT THAT YOU CAN SOLVE TEST BASED PROBLEMS)
- 3) DON'T FORGET YOUR CALCULATOR

ALL THE BEST FOR YOUR EXAM ¹⁰⁰ 🙌

YOUR'S FAITHFULLY,

YOUR FRIEND