COSM ① Important Topics

Unit-1 :- Addition theorem, Bayes theorem (proofs) & problems, Conditional probability, multiplication theorem (without proofs) & problems. Random Variable (Defn) Discrete & Continuous

Unit-2 :- Continuous, Discrete Random Variable problems (Mean, Variance & S.D) with formula & without formula

Distributions :- Binomial, poisson Mean, Variance, S.D derivations & problems

Unit-3 :- 1) → Continuous probability Distribution (Normal distribution) Binomial, Gamma & Exponential problems Distribution

2) → Sampling Distributions

① Samples with replacement without replacement, central limit Theorem

T-Distribution, F-Distribution problem (2)

Unit-4 :- Testing of Hypothesis

1) $|Z| = \left|\frac{\bar{x}-\mu}{\sigma}\right|$ 2) $|Z| = \left|\frac{\bar{x}-\mu}{\frac{\sigma}{\sqrt{n}}}\right|$

3) $|Z| = \left|\frac{p-P}{\sqrt{\frac{PQ}{n}}}\right|$ 4) $|Z| = \left|\frac{\bar{x}_1-\bar{x}_2}{\sqrt{PQ(\frac{1}{n_1}+\frac{1}{n_2})}}\right|$

5) $|Z| = \left|\frac{\bar{x}_1-\bar{x}_2}{\sigma^2(\frac{1}{n_1}+\frac{1}{n_2})}\right|$

6) $|Z| = \left|\frac{\bar{a}_1-\bar{x}_2}{\sqrt{\frac{s_1^2}{n_1}+\frac{s_2^2}{n_2}}}\right|$

7) $|Z| = \left|\frac{P_1-P_2}{\sqrt{\sigma^2(\frac{1}{n_1}+\frac{1}{n_2})}}\right|$

(2)