

Probability Statistics

Imp Question

UNIT-I (Short Questions)

- 1Q) Define vector Spaces and Null space?
2Q) Define linear transformation and ^{write} about linear independent and dependent vector Space?

UNIT-II

- 1Q) Explain different types of probability?
(A) Def of Axiom of Probability; Statical or probability and limitations and Komoregon ^{also}
2Q) State and prove Baye's theorem? (Problem)
~~2Q)~~ (or) total probability theorem

UNIT-III

- 1Q) Explain sampling methods (longs)
2Q) Define Binomial distributions and properties?
3Q) Define Normal distribution write the characteristics of Normal distribution (at least 10) (also problem).
4Q) Define and Applications of poisson distribution
5Q) Explain test of hypothesis and type-I Error and type-II Error.
6Q) Write about t-distribution for test of single mean; two independent sample mean and Paired t-test.

UNIT-IV

- (Q) Explain about z-test for two sample proportions. (large sample)
- (Q) Z-test for two sample means.
- (Q) Z-test for two variances.
- (Q) Difference btw two means, two variances, two standard deviation and two proportion ; two correlations
- (Q) Explain χ^2 square test for independence
- (Q) Explain χ^2 square test for goodness of fit
- (Q) Define different types of correlations
- (Q) Explain simple linear regression regression & multiple regression.
- (Q) distinguish btw correlation and regression

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[MEA]

Managerial Economics and Accountancy

Imp Questions.

Unit - I

- All topic are imp
- Significance of Managerial Economics
- Growth & Development
- Nature & Scope of Managerial Economics

Unit - II

- Law of Demand (factors influencing, opposing situations)
- Demand analysis
- Elastic analysis
- Law of

Unit III

- Production function and Breakeven analysis
- Markets & the monopoly

Unit - IV

- NPV & IRA and Profitability Problem
- Meaning, features & Importance of Capital budgeting
- Working Capital

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All 5 methods → Payback, IRR, NPV, ARR
IRR profitability.

Unit - V

- Concepts and conventions of accountancy
- Subsidiary books (7 types of books & formation)
- final account (default account)
- * Journal (definition)

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MFCs.

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Imp Questions.

Unit - I

- 10) Connectives ~~and~~ (truth tables and equivalence formulae)
 - ~~20)~~
 - 20) Tautology and Contradiction
 - Q) Set theory and Set operation
- Demorgan laws and Distribution law
 - Division Algorithm (***)
 - The well-Ordering Principle

Unit - II

- Relation and functions
- Special Properties of Binary relation.
- Equivalence Relation and Has diagram
Partial order diagram
- Functions (Bijection & Injection)
- Types of Bijection composite function and inverse function.
- Pigeons (**)
- Principle of inclusion and exclusion

Unit - III

- Generating function and recurrence relation
- Second order Homogenous Recurrence Relation

Unit - IV

- full topics

Unit - V

- Isomorphism Graph
- Degree of vertex (in directed and non-directed graph)
- Planar graph (or) plane graph
- Hamiltonian graph → (cycle & path)

Theorems:-

$$\sum_{i=1}^n \deg(v_i) = 2|E|$$

$$\sum_{i=1}^n \deg_G^+(v_i) = \sum_{i=1}^n \deg_G^-(v_i) = |E|$$

→ Spanning tree

→ Minimal Spanning tree

→ Complete Graph and complete Bipartite graph.

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Computer Architecture

Imp Questions

- Fixed Point Representation
- Floating Point Representation
- Instruction Cycle
- Error detection code
- Conversions
- Memory Reference Instructions
- Timing and control
- Design of accumulator logic
- Address Sequencing & design of control unit
- Stack organisation
- Addressing Modes
- RISC (Reduced instruction set computer)
- CISC (Complex instruction set computer)
- Parallel Processing, Pipelining, vector Processing
- Addition & Subtraction flowchart
- Multiplication algorithm
- Booth multiplication algorithm
- Modes of transfer, priority Interrupt and direct memory Access (DMA)
- Memory hierarchy in a computer system

- Mapping procedure (or) Mapping process
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three mapping techniques.
- Virtual memory
- Associative Memory its block diagram
- Asynchronous Communication Interface
- CPU Process and evaluation

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Java Imp Questions.

Unit - I

- Operators, Datatype, Variables, Java features
- OOPS
- Package, Inheritance, polymorphism

Unit - II

- String Handling
- Input/output stream. Multithreading.

Unit - III

- Collection classes; String Tokenizes, comparators, Date and time class, Packages

Unit - IV

- AWT classes, Event Handling.
How to create registration form with all controls

Unit - V

- Strings, Reading and Writing files, Serialization, client server socket program