# **Recruitment Drive Test Preparation Guide (Prepared by Dr. Ghulam Mustafa)**

## **APTITUDE TEST**

### **SECTION I – PART 1: VOCABULARY**

#### **Key Areas:**

* Synonyms & Antonyms
* One-word substitutions
* Analogies
* Idioms & Phrases
* Word usage in sentences

#### **Preparation Tips:**

* Learn 5–10 new words daily using flashcards.
* Use words in daily conversation to retain meaning.
* Focus on context clues in sentences to guess meanings.

#### **Resources:**

* Barron’s GRE Word List
* App: **Magoosh Vocabulary Builder**
* Book: Word Power Made Easy by Norman Lewis

### **SECTION I – PART 2: READING COMPREHENSION**

#### **Key Skills:**

* Skimming and scanning
* Identifying main ideas
* Understanding tone and inference
* Recognizing logical flow and structure

#### **Preparation Tips:**

* Practice with editorials from newspapers like Dawn, The Guardian, or The Hindu.
* Summarize paragraphs in your own words after reading.
* Practice 1–2 comprehension sets daily.

#### **Resources:**

* GRE/GMAT Reading Practice
* Website: [readtheory.org](https://readtheory.org)

## **SECTION II – CRITICAL REASONING**

#### **Key Areas:**

* Argument analysis (strengthen/weaken)
* Assumptions and conclusions
* Logical consistency
* Inference and deduction

#### **Preparation Tips:**

* Break arguments into premise and conclusion.
* Practice identifying implicit assumptions.
* Avoid relying on general knowledge—focus on the information provided.

#### **Resources:**

* GMAT Critical Reasoning Question Bank
* App: **LSAT Prep** (for logical reasoning practice)
* Book: Critical Thinking by M. Neil Browne

## **SECTION III – QUANTITATIVE APTITUDE**

### **PART 1: WORD PROBLEMS**

#### **Key Topics:**

* Percentages, Ratios, Averages
* Time, Speed, and Distance
* Profit and Loss
* Work and Time
* Simple & Compound Interest

#### **Tips:**

* Master basic math formulas and tricks.
* Practice daily with time limits.
* Use shortcuts only after understanding concepts.

#### **Resources:**

* Book: Quantitative Aptitude by R.S. Aggarwal
* YouTube: **Takshzila Shikshak** / **Maths by Arvind Academy**

### **PART 2: DATA SUFFICIENCY**

#### **Concept:**

You’re given a question and two statements. Decide if the information is sufficient to answer the question.

#### **Strategy:**

* Don’t solve—just evaluate sufficiency.
* Practice identifying redundant or irrelevant data.

#### **Resources:**

* GMAT Data Sufficiency Practice Questions
* Website: [gmatclub.com](https://gmatclub.com)

### **PART 3: DATA ANALYSIS**

#### **Key Topics:**

* Bar Graphs, Pie Charts, Tables
* Interpretation and Calculation
* Finding Trends and Comparisons

#### **Tips:**

* Focus on accuracy and speed.
* Pay attention to units and scaling.
* Practice with mixed-data questions.

#### **Resources:**

* CAT Data Interpretation PDFs
* YouTube: **Unacademy CAT** or **2IIM CAT**

# **TECHNICAL TEST**

## **SECTION I – FUNDAMENTALS**

#### **Key Topics:**

* Data types, Variables, Operators
* Flow Control (if-else, loops)
* Functions, Arrays, Recursion
* Complexity (basic Big-O understanding)

#### **Languages to Practice:**

C, C++, Java, or C#

#### **Resources:**

* Book: Let Us C by Yashavant Kanetkar
* Website: [geeksforgeeks.org](https://geeksforgeeks.org), [w3schools.com](https://w3schools.com)

## **SECTION II – OOP CONCEPTS**

#### **Key Topics:**

* Classes & Objects
* Inheritance & Polymorphism
* Encapsulation & Abstraction
* Constructors, Interfaces, and Overloading

#### **Tips:**

* Understand through real-world analogies.
* Implement concepts in a language like Java or C#.

#### **Resources:**

* YouTube: **Telusko**, **CodeWithHarry**
* Book: Object-Oriented Programming in C++ by Robert Lafore

## **SECTION III – .NET TECHNOLOGY**

#### **Key Areas:**

* Overview of .NET Framework and CLR
* C# basics and syntax
* Windows Forms and ASP.NET
* Assemblies, Namespaces

#### **Resources:**

* Microsoft Learn: [.NET Fundamentals](https://learn.microsoft.com/en-us/dotnet/fundamentals/)
* Book: Pro C# and .NET by Andrew Troelsen

## **SECTION IV – DATABASE CONCEPTS AND SQL**

#### **Key Topics:**

* ER Models, Normalization
* DDL, DML, DCL commands
* Joins, Subqueries, Aggregation
* Stored Procedures & Triggers

#### **Resources:**

* Website: [sqlzoo.net](https://sqlzoo.net), [w3schools SQL](https://w3schools.com/sql/)
* Tool: **SQLite**, **MySQL Workbench**

## **SECTION V – MVC FRAMEWORK**

#### **Key Topics:**

* MVC Pattern (Model-View-Controller)
* Routing, Controllers, Views
* Razor Syntax
* ASP.NET MVC Lifecycle

#### **Resources:**

* Microsoft Learn: [ASP.NET MVC](https://learn.microsoft.com/en-us/aspnet/mvc/)
* YouTube: **Dot Net Tricks**, **Programming with Mosh**