

# Mu Sigma Campus Hiring: All Previously Asked Questions by Round

## 1. MuApt Written Test

### 1.1 Quantitative Aptitude

1. Probability: "A basket contains 3 green, 5 brown and 3 red balls. If 3 balls are drawn at random, what is the probability that all are brown?"["Mu Sigma Aptitude Questions"]
2. Work and Time: "The ratio of the capacity to do work of Arindam and Balu is 3:2. If together they complete a work in 18 days, how long does Arindam take alone?"["Mu Sigma Aptitude Questions"]
3. Profit & Loss: "A postman buys a cycle for ₹1,400 and sells it at a 15% loss. What is the selling price?"["Mu Sigma Aptitude Questions"]
4. Mixtures: "A man mixes 26 kg of rice at ₹20/kg with 30 kg at ₹36/kg and sells the mixture at ₹30/kg. What is his profit percent?"["Mu Sigma Aptitude Questions"]
5. Ratio and Proportion: "Salaries of Rachit and Kshama are in the ratio 2:3. If each salary increases by ₹4,000, the new ratio is 40:57. What is Kshama's salary?"["Mu Sigma Aptitude Questions"]
6. Series: "Which term of the series 5, 8, 11, 14,... is 317?"["Mu Sigma Aptitude Questions"]
7. Geometry/Mensuration: "A tank 6 m × 4 m contains water to depth 1.25 m. What is the total wet surface area?"["Mu Sigma Aptitude Questions"]
8. Data Interpretation (Pie-chart): "Near about 20% of the funds for Phase II projects are to be arranged through which source?"["Mu Sigma Aptitude Questions"]

### 1.2 Logical Reasoning

1. Flowcharts & Pseudocode: Predict outputs of basic code snippets (loops, conditionals) under time constraints "Mu Sigma Pseudo Code Quiz"[PrepInsta Pseudo Code]
2. Seating Arrangements & Blood Relations: Standard arrangement puzzles[Mu Sigma Syllabus]
3. Visual Reasoning & Attention to Detail: Spot patterns and anomalies[Mu Sigma Syllabus]
4. Statement & Conclusion: Syllogisms and inference-based questions[Mu Sigma Syllabus]
5. Data Interpretation Charts: Table and chart analysis questions["Mu Sigma Aptitude Questions"]

### **1.3 Verbal Ability**

1. Para Jumbles & Sentence Correction: Rearrange sentences to form coherent paragraphs; fix grammatical errors[Mu Sigma Syllabus]
2. Reading Comprehension: Short passages with inference questions[Mu Sigma Syllabus]
3. Synonyms & Antonyms; Idioms & Phrases[Mu Sigma Syllabus]
4. Tenses & Prepositions; In-fill the blanks with correct usage[Mu Sigma Syllabus]

### **1.4 General Knowledge\***

(Candidates choose one domain: Arts & Literature, Entertainment, Sports, Current Affairs)

- Quotes by Tolstoy/Shakespeare; Paintings by Da Vinci/Dali[GeeksforGeeks On-Campus Experience]
- Technology & Science; Business & Economics trends
- Major sports events and personalities

## **2. Case Study & "Star" Questions**

1. **Case Study:** Four 700-word essay questions on factors to consider—e.g., "*What factors should a company consider before launching a new smartphone?*"[GeeksforGeeks On-Campus Experience]
2. **Star Questions:** Two high-impact mini-cases assessing structured, data-driven recommendations (topics vary by cohort)

## **3. Pseudo Code Round**

(Two output-prediction questions; 30 min total)

1. Trace a nested-loop snippet over arrays and conditionals to determine final variable values.
2. Simulate a recursive routine or simple function calls to produce numeric output.  
*(Exact code varies; difficulty is medium.)*

## **4. Technical Interview**

### **4.1 Programming & DSA**

1. Write code to print Fibonacci series in C++.[PrepInsta Technical Qs]
2. Detect Armstrong number in Java.[PrepInsta Technical Qs]
3. Prime-factorization of a number in C.[PrepInsta Technical Qs]
4. Find HCF of two numbers in C++.[PrepInsta Technical Qs]
5. Identify friendly pairs (sum-of-divisors ratio) in C.[PrepInsta Technical Qs]

## 4.2 Core CS Fundamentals

- Explain polymorphism; encapsulation; procedural programming[PrepInsta Technical Qs]
- Control systems: feedback; Q-factor definitions[PrepInsta Technical Qs]
- UNIX operating system overview[PrepInsta Technical Qs]
- OSI model layers[PrepInsta Technical Qs]
- RDBMS vs. network vs. hierarchical data-structure usage[PrepInsta Technical Qs]
- DBMS advantages: ACID, indexing, recovery[PrepInsta Technical Qs]

## 4.3 SQL & Databases

1. Cumulative monthly sales with window functions and decrease indicator.
2. 2nd-highest salary query (subquery/ranking).
3. CREATE VIEW usage to simplify or hide data.
4. Customer orders and total spent via JOINs + GROUP BY.
5. Find orphan records (LEFT JOIN + IS NULL).
6. Filter by tier = 'premium', orders > 100, city = 'Chicago'.
7. Self-join to pair URLs by referral.
8. Average project duration per client (DATEDIFF + AVG).
9. Click-through and conversion rates from ad-click and cart tables.

## 5. HR & Behavioral Interview

1. "Why Mu Sigma?"—innovative, client-focused responses[GeeksforGeeks On-Campus Experience]
2. Walk through past analytics projects and machine-learning research.
3. Guesstimates and mini case studies under stress (footwear launch; beverage sales VD) [GeeksforGeeks On-Campus Experience][PrepInsta Syllabus]
4. "Tell me about yourself," strengths/weaknesses, 5-year plan.
5. Situational: handling pressure, teamwork, ethics.

*This compilation aggregates questions from on-campus experiences, prep-platform archives, and candidate recounts to guide targeted preparation across all Mu Sigma campus-hiring rounds.*