Skillshort

Self-Study Preparation Pack

CMA FOUNDATION

Paper 3: Fundamentals of Business Mathematics and Statistics (FBMS)

Important Topics, Weightage & Past-Paper Frequency

ICMAI Syllabus 2022 study weightage + Skillshort count of the ICMAI June 2026 question paper (Section I Q1–20, Section II Q21–50)

8 modules · 50 MCQs | About 80% numericals | No negative marking

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This subject pack has 6 parts

1 Chapter-wise notes
2 Important topics & weightage
3 Past papers: trends & links
4 Mock tests + solutions
5 Chapter practice questions
6 Last-week plan & strategy

Prepared by Skillshort for self-study. Original explanations and questions; not an official ICAI/ICMAI/ICSI publication. Items marked VERIFY should be checked against the latest official material.

Weightage: official vs June 2026 paper

Module	Topic	ICMAI weightage	MCQs expected (of 50)	June 2026 (approx.)	Priority
1	Arithmetic – ratio, variation, proportion, SI/CI, annuity, AP/GP, time & distance	15%	7–8	~8	HIGH High
2	Algebra – sets/Venn, indices, logarithms, P&C, quadratic equations	20%	10	~10	HIGH Very high
3	Calculus – functions, revenue and cost, optimisation	5%	2–3	~2	MED Medium
4	Statistical representation of data	5%	2–3	~4	MED Medium
5	Central tendency and dispersion	15%	7–8	~7	HIGH Very high
6	Correlation and regression	15%	7–8	~6	HIGH Very high
7	Probability	15%	7–8	~7	HIGH Very high
8	Index numbers and time series	10%	5	~6	HIGH High

TREND What the June 2026 paper shows

Section I (Q1–20) mixed ratios, mean proportional, variation, SI/CI, AP/GP, time and work, average speed, sets, indices, logs, factorials, quadratic roots, functions and **minimum average cost**. Section II (Q21–50) had attribute and pie-chart questions, averages, quartiles, CV, **rank correlation**, **means from regression lines**, basic probability, **weighted moving averages**, **Paasche's index**, real wages and simple price index.

Topic-wise priority list

Module	Must-do question types	Also prepare
1 Arithmetic	Share in a ratio; mean/third/fourth proportional; direct, inverse and joint variation; SI rate from two amounts; CI and CI − SI; annuity FV/PV; nth term and sum of AP/GP; **average speed 2xy/(x + y)**; trains	Effective rate; time and work
2 Algebra	n(A ∪ B); Venn %; laws of indices; log values and solving; arrangements of words; committees; circular arrangements; ${}^nC_r = {}^nC_s$; sum/product of roots; new equations from roots	Number of subsets/relations; factorial ratios
3 Calculus	MC from C(x); revenue maximum; **minimum average cost**; break-even	f(g(x)); derivative value
4 Representation	Attribute vs variable; primary vs secondary; pie angle; class mark; frequency density; ogive/histogram uses	Types of classes; diagrams
5 CT & dispersion	Mean, median, mode (empirical); combined mean; weighted mean; quartiles; QD and coefficient; MD; SD of two numbers; change of origin and scale; **CV**	Which average suits which data
6 Correlation & regression	Properties of r; r from b_yx and b_xy; **rank correlation and n**; estimates from regression; **means from the two lines**	r^2 meaning
7 Probability	Dice, cards, balls, coins; addition theorem; independent events; conditional probability; odds; expectation	53 Sundays
8 Index & time series	Price relative; Laspeyres; **Paasche**; Fisher; real wage; components of time series; **3-yearly and weighted moving average**; back-calculation	Tests of adequacy

Question-type pattern

Type	Share (approx.)	Time to aim for
One-step numerical	~65%	50–70 seconds
Two-step numerical (table, regression lines)	~15%	90 seconds
Concept / property	~20%	20 seconds

STRATEGY Score plan for 80+

Statistics gives 30 of the 50 questions and most are formula-based. Learn the **formula sheet in file 06** first, then drill Modules 2, 5, 6 and 7 – together about 32 questions.