

CA Final Strategic Financial Management

OUTNOTES

UNIQUE STRUCTURED CONCEPT NOTES
ALONG WITH THEORY NOTES

Relevant for Nov- 23 & onwards...

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Meet Adish Jain

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Ex-Morgan Staley & ICICI Securities with 2+ years work-ex in Equity Research

Teaches CA Final-SFM, CFA and Financial Modelling

Taught 4000+ students across courses

His 2 core mantra for students:

- Conceptual Clarity
- Comprehensive Coverage



Adish Jain CA CFA

Hey! Let's connect here...



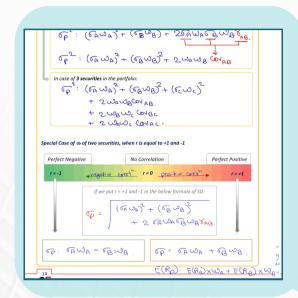


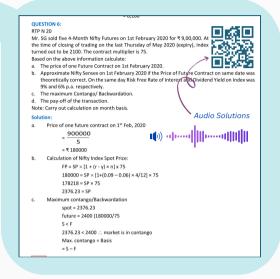
2 Amazing Features

Changing student's experience...

* Month & doy courting Rule: * Rounding of Rules:

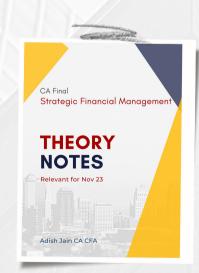
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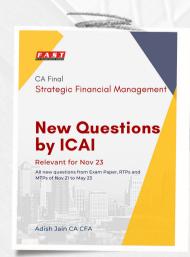




UNIQUE STRUCTURED CONCEPT NOTES







OutNotes vs. ICAI Chapters

No.	ICAI Chapter Name	OutNotes Chapter Name	
1	Financial Policy and Corporate Strategy	Financial Policy and Corporate Strategy	
2	Risk Management	Risk Management & Security Analysis	
4	Security Analysis	Risk Management & Security Analysis	
3	Advanced Capital Budgeting Decisions	Advanced Capital Budgeting Decisions	
5	Security Valuation		
	Preference Share Valuation		
	Bond Valuation	Fixed Income Securities	
	Money Market Securities		
	Equity Valuation	Equity & Business Valuation	
13	Business Valuation	Equity & Business Valuation	
6	Portfolio Management	Portfolio Management	
7	Securitization	Securitization	
8	Mutual Funds	Mutual Funds	
9	Derivatives Analysis and Valuation	Derivatives & Interest Rate Risk	
12	Interest Rate Risk Management	Management	
10	Foreign Exchange Exposure and Risk Management	Foreign Exchange & International Financial Management	
11	International Financial Management	Timanetai Management	
14	Mergers, Acquisitions and Corporate Restructuring	Mergers, Acquisitions and Corporate Restructuring	
15	Startup Finance	Startup Finance	

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Important Instructions

before we read this book...

- This book has been creatively designed to help you understand and remember the concepts easily. For this purpose, concepts have been presented in diagrams and charts format. However, for theory topics, answers must be written in simple pointers and paragraph format in exams.
- The purpose of text in **Grey Colour** is to give you the background of the main concept, which will be more useful while reading first time. At the time of revision, you should make use of colour coding & ignore grey text.
- Below theory chapters & topics have more importance and should be studied on priority to other chapters:

Chapters:

- 1. Start-Up Finance
- 2. Securitization
- 3. Financial Policy and Corporate Strategy
- 4. Risk Management
- 5. Security Analysis

Chapters	M 23	N 22	M 22	N 21	M 21	N 20 (II)	N 20	N 19
Start-Up Finance	8	8	4	8	8	8	7	8
Securitization	4	4	4	4	4	8	4	8
Financial Policy & Corp Strat	4	4	4		4	4		4
Risk Management			4	4	4			
Security Analysis				4			4	
Other Chapters	8	12	8	4	4		4	
Total	24	28	24	24	24	20	19	20

All the best!

Rounding of Rules.

If the number being calculated naturally has only 2, 3 or 4 digits after decimal point, then there is no need to round off and student can continue to use that number in the solution. However, if there are many digits after the decimal point then rounding off should be done as follows:

Basics of Financial Management

No. of digits after decimal points.

2

Returns: Ke, RF, E(R), G, G, ROE, K Weights & probabilities (1.) Mutual Fund Units & NAV Amount not in Lakhe, million or Crore.

3

Beta (B)

PVF, EVF, etc.

Duration (mocaulays & modified.)

Correlation (8)

Exchange Ratio (M & A)

Weights & probabilities (decimals)

Exchange Rate (west question has some other flow)

Binomial model: U & d.

B & 5: d_ d_2, N(d_1) & N(d_2)

Mutual Fund NAV

Amount in Lakks, million or Crore.

Basics of Financial Management



A. Basic Ratios

1) Earnings Per Share

Earnings Per Share (EPS)

In the absence of preference dividend, EAES = PAT.

P&L extract:

Particulars	Amount
PAT	ベベ
(-) Pref. dev	(xx)
EA to ES	$\times \chi$

2) Price Earnings Ratio & Market Price per Share

Price Earnings Ratio (PE Ratio): PE Ratio is 'how much are the investors ready to pay for a share of a company, for every rupee of income earned from it'. And a lot more...

Market Price Per Share (MPS)

PE: <u>mps</u> EPS

MPS: EPS x PE.

3) Dividend: Absolute & Percentage

Dividend Per Share (DPS): Total dividud

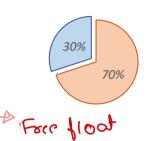
	Dividend Rate	Dividend Yield	Payout Ratio	Retention Ratio
	(as a % of FV)	(as a % of MPS)	(as a % of EPS)	RE: EPS-D
	- 000	Div DPS	DPS.	
1	DPS:	Tidd. MPS.	t.P.S	RR: RE EPS.
	FV x Div.	(10101)		
	Rate.			08
				I DPR

4) Market Capitalization

Market Capitalisation (M-Cap) means total market value of equity shares of the company.

Example: Justdial Ltd has 1000 equity shares outstanding. Current market price is ₹ 15 per share.

Shareholding Pattern	Number of Shares	Holding %
Promoters	700	70%
General Public	300	30%



Total or Full Market Cap

It is the total value of all equity shares of the company.

It is that part of total market cap that is not held by promoters i.e., held by general public

Calculation of M-Cap

Total no. of shows × mps	Tree- 100t x MPS.
= 15,000	no. of shores x 300 x 15 = 4500,
\times	Total Free floot: m-cap x holdring (1/1) : 15,000 x 301. : 4,500



5) Book Value per Share

Book-value per Share (BVPS) is the per share value of equity shareholders in the net assets of the company as per books.

- Notablets or Not worth,

Equity Shareholders Funds (ESHF) is the total value of equity shareholders in the net assets of the company as per books.

6) Return on Equity

Return on Equity (ROE) is the accounting return to the equity shareholders as per books.

B. Different types of Rates of Return

1) Expected Rate of Return

It is the rate of return that an investor estimates (expects) that he will earn on an investment. It reflects the perception of investor for that investment. It is usually calculated from 1 year's perspective on the share of the company.

Example: A share is bought today @ $P_{\bot} - P_{\odot} + D$

Example: A share is bought today @ ₹ 100 and investor estimates that it can be sold @ ₹ 115 after a year. Then, expected rate of return on the investment is 15%.

$$\frac{P_{1} - 10 + 0}{P_{0}}$$

$$\frac{115 - 100 + 0}{100}$$

15%.

2) Internal Rate of Return (dechnique)

It is the discounting rate at which PV of cash inflows from an investment is equals to initial cash outflow. It is calculated to determine the compounded rate of return actually earned (in case of ex-post data) or to be earned (in case of ex-ante data) on any investment.

Example:

Year	Cash Flows (₹)
0	- 110
1	11
2	121

$$\frac{110}{110} = \frac{11}{(1+8)^{1}} + \frac{121}{(1+8)^{2}}$$

Verifying the return earned:

Year	Amount Invested	Return Accrued	Return received	Due Amount

3) Required Rate of Return

red from an investment, Also called as Opportunity Cos

Real Rate to discount Risky CFs.

It is the minimum rate of return required from an investment, Also called as Opportunity Cost, it is used as discounting rate to calculate PV of cash flows. When compared with expected rate of return, it helps in investment decision.

Inflation Premium

Compensation for loss of purchasing power of money invested

Real Risk-free Rate

Compensation for allowing use of money to other

Risk Premium

Compensation for taking risk while making a risky investment

Nominal Role to discount RF califlows.

risky

CFs.

C. Time Value of Money

6 months' period 4 cor.	1	2	3	4	5
Cash Flows (₹)	200	200	200	200	200

Example: Discounting rate = 10%

Future Value	Present Value
Single Sum:	
Value of ₹ 200 at the end of year 5th period:	Value of ₹ 200 today:
EA: 61 x EAE (10.11'2)	b1: E1 × b1 (10.1'2)
: 500 x (T·T)2	: 200 × 1/1/3
: 500 × 7.677	: 200 x 0.621

Annuity: [A]

Regular Annuity

Value of all CFs at the end of 5th period assuming CFs occur at the end of the period:

: 322.2.

=m+ 1.337 by: $\forall \times b \land \forall = (10.1.2)$

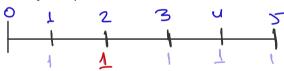
$$FV = A \times FVAF$$

$$: 200 \times 6.105$$

$$: 1221.$$

Value of all CFs today assuming CFs occur at the end of the period:

: 124.2.



: 200 × 3.79L.

: 758.2

Annuity Due

Value of all CFs at the end of 5th period assuming CFs occur in the beginning of the period.

Value of all CFs today assuming CFs occur in the beginning of the period.



Perpetuity

Value of infinite number of CFs of ₹ 200 at the end of infinite period:

Ampossible to colcilate.

list of Ratios used in

Value of infinite number of CFs of ₹ 200 today:

- Asset Turnovel Ratio Debt Ratio
- Asset to salul. Ratio . Delt to Equity Pol
- ROFE: EBIT
 - CE= E+D+P.
- NPA Ratio (1/): NPA (=)
 - Advances (100n given.)

- Adish Jain CA CFA
- · CAR : Capital

D. Types of Cash Flows

Nominal Cash Flows

Real Cash Flows

Nominal cash flows are the amount of future revenues or expenses the company expects to receive or pay. Nominal cash flow has effect of inflation included in it.

When effect of inflation is removed from such future cash flows, they are called Real cash flows. Real cash flow does not have effect of inflation included in it.

Relationship between Nominal cash flow and Real cash flow:

To calculate PV of nominal cash flow, nominal discounting rate is used.

To calculate PV of real cash flow, real discounting rate is used.

Relationship between Nominal (1+ Noninal) = (1+ Red) (1+ Inflat)

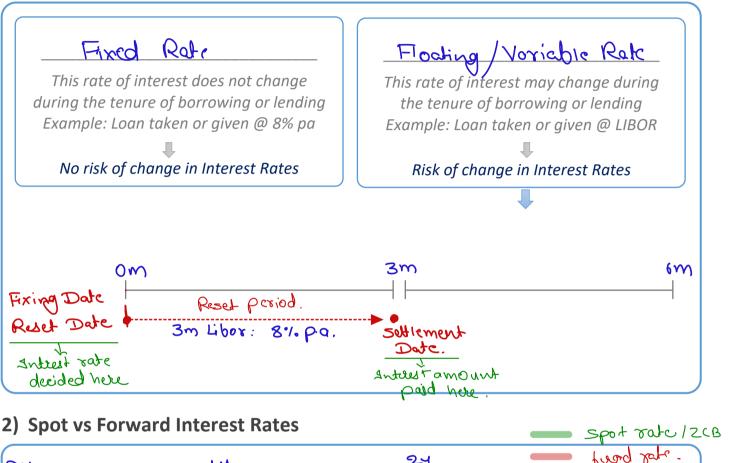
Example: Cipla Ltd has forecasted cash inflow of \ge 100 crores to be received at the end of 2^{nd} year. Real discounting rate is 10% and inflation in the economy is at 5%. Calculate PV of future cash flow using Nominal discounting rate and Real discounting rate.

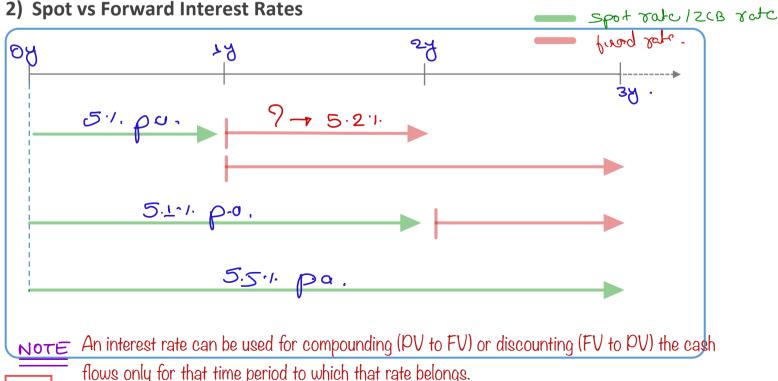
Using Nominal discounting rate:

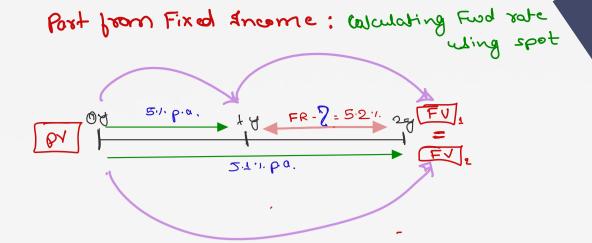
Using Real discounting rate:

E. Types of Interest Rates

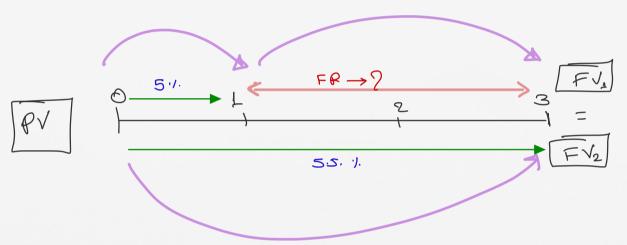
1) Fixed vs Floating Interest rates







Equity & Corporate Valuation



· Terro etrucher / richd WENG

Dividend Based Valuation Models

- Zero Growth Model
- Constant Growth Model
- Variable Growth Model
- H Model

Cash Flow Based Valuation Models

- Free Cash Flow to Firm Approach
- Free Cash Flow to Equity Approach

Asset Based Valuation Models

Net Asset Value Method

Earnings Based Valuation Models

- Earnings Capitalisation Method
- Walter's Model

Relative Valuation

- Equity Value Multiples Based Valuation
- Enterprise Value Multiples Based Valuation
- Chop Shop Approach

Other Important Topics

- Economic Value Added
- Market Value Added
- Concept of Rights Issue
- Concept of Buy-back
- Concept of Bonus Issue

A. Dividend based Valuation Models

Fundamental Principle of Valuation: Value of any asset today is the present value (PV) of all future cash flows (CFs) generated from that asset. Value of:

Equity Share	PV (Div.) + PV (Sales price)
Bonds	PV (60pon) + PV (RV.)
Any other asset	PV (FCF)

Common sense behind the principle:

Suppose a share can be sold @ ₹ 110 at the end of one year. Your required rate of return is 10%. How much will you be ready to pay for that asset so that you earn required return of 10%?



Dividend Discount Models (DDMs) use dividends as the basis of calculating **Intrinsic Value** (**IV**-what should be the valued) of shares.

Definite number of years

Value of Share: PV (Div) + PV (Salu price)

Yes Bank is expected to distribute dividends of \ge 10 and \ge 12 next year and a year thereafter. At the end of this period, its share is expected to be sold at \ge 150. Calculate the value of share if discounting rate is 15%.

Indefinite number of years

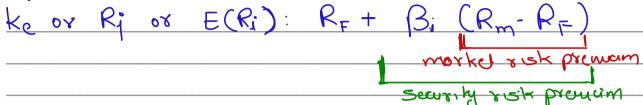
Value of Share: $D_1, 2, 3 \dots \infty$



Calculation of cost of equity

We know that dividends belong to ESHs, therefore, discounting rate to be used to calculate PV will be required rate of return to ESHs i.e., **Cost of Equity** (K_e):

• Preference # 1: CAPM*



*CAPM is covered in detail in the chapter 'Portfolio management'.

• Preference # 2: Gordon's Formula

Without Floatation Cost

$$k_e: \frac{D_1}{P_0} + \theta$$

With Floatation Cost

• Preference # 3: Earning's Yield



Required Rate of Return (R_i) vs Expected Rate of Return $(E(R_i))$

Many times, examiner uses the words 'Required Rate of Return' and 'Expected Return' interchangeably. This is simply because:

If
$$E(R_i) = R_i \implies then P_0 = IV$$

If
$$P_0 = IV \implies then E(R_i) = R_i$$

It means that examiner is assuming the security as fairly valued. Hence, by whatever name ($E(R_i)$ or R_i) rate is given in the question, it will be used as discounting rate to calculate IV.

Conclusion: In other words, solve the question normally by treating the given rate as R_i .