

The WAY CA test series– JAN 2025

CA FINAL P2 : ADVANCED FINANCIAL MANGEMENT

05.10.2025

[SYLLABUS : MUTUAL FUNDS, SECURITY VALUATION]

TIME : 2 HRS

TOTAL : 70 MARKS

PART I : MCQ ANSWERS

14 MARKS

Case Study – 1

1. Option (b) : 27.27%
2. Option (a) : 10%
3. Option (c) : Rs 22

Case Study – 2

4. Option (c) $\frac{8,00,000}{10.10} \times 10$ Rs 7,92,079.21

5. Option (a) $\frac{4,00,000}{10.30} (10.35-10.30)+9000 = 10,941.75$

6. Option (c) $\frac{10,941.75}{4,00,000} \times \frac{365}{D} = 0.0966$

7. Option (a) $\frac{\frac{8,00,000}{10.10} (10.00-10.10)}{8,00,000} \times \frac{365}{D} = -11.66\%$

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PART II : DESCRIPTIVE SOLUTIONS 56 MARKS

Question : 1(a)

6 Marks

Working Notes:

(i) Computation of Growth Rate in Earning and EPS

Years	1	2	3	4	5	6	7	8	9	10
Growth in Earning	40%	40%	40%	40%	40%	34%	28%	22%	16%	10%
EPS(₹)	5.60	7.84	10.98	15.37	21.51	28.82	36.89	45.00	52.20	57.42

(ii) Computation of Payout Ratio and Dividend

Years	1	2	3	4	5	6	7	8	9	10
Payout Ratio	10%	10%	10%	10%	10%	18%	26%	34%	42%	50%
Dividend(₹)	0.56	0.78	1.10	1.54	2.15	5.19	9.59	15.30	21.92	28.71

(iii) Calculation of PV of Dividend

Year	Dividend(₹)	PVF	PV of Dividend(₹)
1	0.56	0.855	0.48
2	0.78	0.731	0.57
3	1.10	0.625	0.69
4	1.54	0.534	0.82

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5	2.15	0.456	0.98
6	5.19	0.390	2.02
7	9.59	0.333	3.19
8	15.30	0.285	4.36
9	21.92	0.244	5.35
10	28.71	0.209	6.00
			24.46

$$TV = \frac{28.71(1.10)}{0.17-0.10} \times 0.209 = ₹94.29$$

$$\text{Intrinsic Value} = ₹24.46 + ₹94.29 = ₹118.75$$

Since the Intrinsic Value of Equity share is less than current market price, it is not advisable to invest in the same.

Question : 1(b)

4 Marks

	Amount in ₹ lakhs	Amount in ₹ lakhs	Amount in ₹ lakhs
Opening Bank (200 - 185 -12)	3.00		
Add: Proceeds from sale of securities	63.00		
Add: Dividend received	2.00	68.00	
Deduct:			
Cost of securities purchased	56.00		
Fund management expenses paid (90% of 8)	7.20		
Capital gains distributed = 80% of (63 – 60)	2.40		
Dividend distributed = 80% of 2.00	1.60	67.20	
Closing Bank			0.80

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Closing market value of portfolio			198.00
			198.80
Less: Arrears of expenses			0.80
Closing Net Assets			198.00
Number of units (Lakhs)			20
Closing NAV per unit			9.90

Rate of Earning (Per Unit)

	Amount
Incomereceived(₹2.40+₹1.60)/20	₹0.20
Loss:Lossondisposal(₹200-₹198)/20	₹0.10
Netearning	₹0.10
Initialinvestment	₹10.00
Rateofearning(monthly)	1%
Rateofearning(Annual)	12%

Question : 1(c)

4 Marks

(i) Value of share at present $= \frac{Dg}{Ke-g} = \frac{2(1.06)}{0.08-0.06} = ₹106$

However, if the Board implement its decision, no dividend would be payable for 3 years and the dividend for year 4 would be ₹2.50 and growing at 7% p.a. The price of the share, in this case, now would be:

$$P_0 = \frac{2.50}{0.08-0.07} \times \frac{2(1.06)}{(1+0.08)^3} = ₹ 198.46$$

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So, the price of the share is expected to increase from ₹106 to ₹198.45 after the announcement of the project. The investor can take up this situation as follows:

$$\text{Expected market price after 3 years} = \frac{2.50}{0.08-0.07} = ₹ 250.00$$

$$\text{Expected market price after 2 years} = \frac{2.50}{0.08-0.07} \times \frac{1}{(1+0.08)} = ₹231.48$$

$$\text{Expected market price after 1 years} = \frac{2.50}{0.08-0.07} \times \frac{1}{(1+0.08)} = ₹214.33$$

(ii) In order to maintain his receipt at ₹2,000 for first 3 year, he would sell

$$10 \text{ shares in first year @ ₹ 214.33 for} = ₹2,143.30$$

$$9 \text{ shares in second year @ ₹ 231.48 for} = ₹2,083.32$$

$$8 \text{ shares in third year @ ₹ 250 for} = ₹2,000.00$$

At the end of 3rd year, he would be having 973 shares valued @ ₹250 each i.e. ₹2,43,250. On these 973 shares, his dividend income for year 4 would be @ ₹2.50 i.e. ₹2,432.50.

Thus, if the project is taken up by the company, the investor would be able to maintain his receipt of at least ₹2,000 for first three years and would be getting increased income thereafter.

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Question : 2(a)

5 Marks

(i) Dirty Price

= Clean Price + Interest Accrued

$$= 99.42 + 100 \times \frac{12}{100} \times \frac{292}{360}$$

$$= 109.1533$$

(ii) First Leg (Start Proceed)

$$= \text{Nominal Value} \times \frac{\text{Dirty Price}}{100} \times \frac{100 - \text{intial margin}}{100}$$

$$= ₹5,00,00,000 \times \frac{109.1533}{100} \times \frac{100 - 2}{100}$$

$$= ₹5,34,85,117 \text{ say } ₹5,34,85,000$$

(iii) Second Leg (Repayment at Maturity)

$$= \text{Start proceed} \times 1 + \text{Repo rate} \times \frac{\text{No of days}}{360}$$

$$= ₹5,34,85,000 \times 1 + 0.0525 \times \frac{14}{360}$$

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$$= ₹5,35,94,199$$

Question : 2(b)

5 Marks

(i) Number of shares to be issued: 5,00,000

$$\text{Subscription price } ₹20,00,000 / 5,00,000 = ₹4$$

$$\text{Ex-right Price} = (₹1,30,00,000 + ₹20,00,000) / 15,00,000 = ₹10$$

$$\text{Value of right} = (₹10 - ₹4) / 2 = ₹3$$

$$\text{Or} = ₹10 - ₹4 = ₹6$$

(ii) Subscription price ₹20,00,000 / 2,50,000 = ₹8

$$\text{Ex-right Price} = (₹1,30,00,000 + ₹20,00,000) / 12,50,000 = ₹12$$

$$\text{Value of right} = (₹12 - ₹8) / 4 = ₹1$$

$$\text{Or} = ₹12 - ₹8 = ₹4$$

(iii) The effect of right issue on wealth of Shareholder's wealth who is holding, say 100 shares.

a. When firm offers one share for two shares held.

Value of Shares after right issue (150 × ₹10)	₹1,500
Less: Amount paid to acquire right shares (50 × ₹4)	₹200

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	₹1,300
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- b. When firm offers one share for every four shares held

Value of Shares after right issue (125 × ₹12)	₹1,500
Less: Amount paid to acquire right shares (25 × ₹8)	₹200
	₹1,300

- c. Wealth of Shareholders before Right Issue ₹1,300

Thus, there will be no change in the wealth of shareholders from (i) and (ii).

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Question :2(c)

4 Marks

- (a) If return is 29%

	₹
Fixed fee (A) 0.10% of ₹20 crore	2,00,000
New Fund Value (1.29 × ₹20 crore)	25.80 crore
Excess Value of best achieved (25.80 crore – 21.00 crore)	4.80 crore
Incentive Fee (2% of 4.80 crores) (B)	9,60,000
Total Fee (A) + (B)	11,60,000

- (b) If return is 4.5%

	₹
Fixed (A) 0.10% of ₹20 crore	2,00,000

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NewFundValue($1.045 \times ₹20$ crore)	20.90crore
ExcessValueofbestachieved(20.90 crore– 21.00 crore)	(₹0.10crore)
IncentiveFee(asdoesnotexceedbestachieved)(B)	Nil
TotalFee(A)+(B)	2,00,000

(c) If return is (-1.8%)

No incentive only fixed fee of ₹2,00,000 will be paid

Question : 3 (a)

7 Marks

NPV for bond refunding

	₹
PVofannualcashflowsavings(W.N.2) ($3,49,600 \times PVIFA 8\%, 25$) i.e. 10.675	37,31,980
Less:Initialinvestment(W.N.1)	31,15,000
NPV	6,16,980

Recommendation: Refunding of bonds is recommended as NPV is positive.

Working Notes:

(i) Initial Investment:

(a)	CallPremium		
	Beforetax($1,150-1,000$) $\times 30,000$	45,00,000	

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	LessTax@40%	18,00,000	
	Aftertaxcostofcall premium		27,00,000
(b)	FloatationCost		4,25,000
(c)	OverlappingInterest		
	Beforetax($0.14 \times 2 / 12 \times 3$ Crores)	7,00,000	
	Lesstax@ 40%	2,80,000	4,20,000
(d)	Taxsavingsonunamortizeddiscountonold bond ($25/30 \times 9,00,000 \times 0.4$)		(3,00,000)
(e)	Tax savings from unamortized floatation cost of old bonds ($25/30 \times 3,90,000 \times 0.40$)		(1,30,000)
			31,15,000

(ii) Annual cash flow savings:

a. Old Bond

(i)	Interestcost(0.14×3 crores)	42,00,000	
	Less: tax @ 40%	16,80,000	25,20,000
(ii)	Taxsavingsfromamortisationofdiscount ($9,00,000 / 30 \times 0.4$)		(12,000)
(iii)	Taxsavingsfromamortizationoffloatation cost ($3,90,000 / 30$)		(5,200)
	AnnualaftertaxcostpaymentunderoldBond(A)		25,02,800

b. New bond

(i)	InterestCost(0.12×3 crores)	36,00,000	
	Less: Tax@40%	14,40,000	21,60,000
(ii)	Taxsavingsfromamortisationof floatationcost $0.4 \times 4,25,000 / 25$		(6,800)
	AnnualaftertaxpaymentundernewBond(B)		21,53,200

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	AnnualCashFlowSaving(A)–(B)	3,49,600
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Question : 3 (b)

7 Marks

(i) Calculation of Income Available for Distribution

	Units (Lakh)	PerUnit (₹)	Total (₹Inlakh)
Income from April	300	0.0765	22.9500
Add:Dividendequalizationcollectedonissue	6	0.0765	0.4590
	306	0.0765	23.4090
Add :Income from May		0.1125	34.4250
	306	0.1890	57.8340
Less:Dividendequalizationpaidonrepurchase	3	0.1890	(0.5670)
	303	0.1890	57.2670
Add: Income from June		0.1500	45.4500
	303	0.3390	102.7170
Less:Dividend Paid		0.2373	(71.9019)
	303	0.1017	30.8151

(ii) Calculation of Issue Price at the end of April

	₹
OpeningNAV	18.750
Add:EntryLoad2%of ₹18.75	0.375
	19.125
Add:Dividend Equalization collected on Issue Price	0.0765
	19.2015

(iii) Calculation of Repurchase Price at the end of May

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	₹
OpeningNAV	18.750
Less:Exit Load 2% of ₹18.750	(0.375)
	18.375
Add:Dividend Equalization paid on Issue Price	0.189
	18.564

(iv) Closing NAV

		₹(lakh)
Opening NetAssetValue (₹18.75 ×300)		5625.000
Portfolio Value Appreciation		425.470
Issue of Fresh Units(6×19.2015)		115.209
Income Received(22.95+34.425+45.45)		102.825
Less:Units repurchased(3×18.564)	-55.692	6268.504
IncomeDistributed	-71.9019	(-127.5939)
Closing NetAssetValue		6140.9101
Closing Units(300+6–3)lakh		303lakh
Closing NAV as on 30th June		₹20.2670

Question : 4 (a)

7 Marks

- (i) Calculation of Bond Duration

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Bond A

Year	Cashflow	P.V.@9%		Proportionof bond value	Proportionofbond valuetime(years)
1	10	0.917	9.17	0.086	0.086
2	10	0.842	8.42	0.079	0.158
3	10	0.772	7.72	0.073	0.219
4	10	0.708	7.08	0.067	0.268
5	10	0.650	6.50	0.061	0.305
6	10	0.596	5.96	0.056	0.336
7	10	0.547	5.47	0.051	0.357
8	10	0.502	5.02	0.047	0.376
9	10	0.460	4.60	0.043	0.387
10	110	0.4224	46.46	0.437	4.370
			106.40	1.000	6.862

Duration of the bond is 6.862 years or 6.86 year

Bond B

Year	Cash flow	P.V.@ 9%		Proportionof bondvalue	Proportionofbond valuetime(years)
1	11	0.917	10.087	0.091	0.091
2	11	0.842	9.262	0.083	0.166
3	11	0.772	8.492	0.076	0.228
4	11	0.708	7.788	0.070	0.280
5	11	0.650	7.150	0.064	0.320
6	11	0.596	6.556	0.059	0.354

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7	11	0.547	6.017	0.054	0.378
8	111	0.502	55.772	0.502	4.016
			111.224	1.000	5.833

Duration of the bond B is 5.833 years or 5.84 years.

Bond C

Year	Cash flow	P.V.@9%		Proportion of bond value	Proportion of bond value time (years)
1	9	0.917	8.253	0.082	0.082
2	9	0.842	7.578	0.076	0.152
3	9	0.772	6.948	0.069	0.207
4	9	0.708	6.372	0.064	0.256
5	109	0.650	70.850	0.709	3.545
			100.00	1.000	4.242

Duration of the bond C is 4.242 years or 4.24 years

(ii) Amount of Investment required in Bond B and C

Period required to be immunized	6.000 Year
Less: Period covered from Bond A	3.087 Year
To be immunized from Bond C	2.913 Year

Let proportion of investment in Bond B and C is b and c respectively then

$$b + c = 0.55 \quad (1)$$

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$$5.883b + 4.242c = 2.913 \quad (2)$$

On solving these equations, the value of b and c comes 0.3534 or 0.3621 and 0.1966 or 0.1879 respectively and accordingly, the % of investment of B and C is 35.34% or 36.21% and 19.66 % or 18.79% respectively.

(iii) With revised yield the Revised Duration of Bond stands

$$0.45 \times 7.15 + 0.36 \times 6.03 + 0.19 \times 4.27 = 6.20 \text{ year}$$

No portfolio is not immunized as the duration of the portfolio has been increased from 6 years to 6.20 years.

(iv) New percentage of B and C bonds that are needed to immunize the portfolio.

Period required to be immunized	6.0000 Year
Less: Period covered from Bond A	3.2175 Year
To be immunized from B and C	2.7825 Year

Let proportion of investment in Bond B and C is b and c respectively, then

$$b + c = 0.55$$

$$6.03b + 4.27c = 2.7825$$

$$b = 0.2466$$

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On solving these equations, the value of b and c comes 0.2466 and 0.3034 respectively and accordingly, the % of investment of B and C is 24.66% or 25% and 30.34 % or 30.00% respectively.

Question : 4 (b)

7 Marks

(i) Dividend Plan

(a) Average Annual gain over a period of 5 Years	27748.60
(b) Total gain over a period of 5 years (a*5)	138743
(c) Initial Investment	920000
(d) Total value of investment (b+c)	1058743
(e) NAV as on 31.3.2020	49
(f) Number of units at the end of the period as on 31.03.2019 (d/e)	21607

	1	2	3	4=(2*3)	5	6 = 1/ (4+5)*4	7
Period	Units held	Rate	Unit value	Dividend	NAV	New Units*	Balance Units Pre-Dividend
31.03.2019	21607	0.15	10	1.5	45	697	20910
31.03.2018	20910	0.1	10	1	50	410	20500
31.03.2017	20500	0.12	10	1.2	48	500	20000

Issue Price as on 01.04.2015 Investment 920000/ Units purchased 20000 (c/i) = ₹46

* Let the units issued be X

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$$X = (\text{Closing Units/NAV} + \text{Dividend}) \times \text{Dividend}$$

(ii) Bonus Plan

(a)AverageYield	0.064
(b)Investment	1000000
(c)Gainoveraperiodof5years(a*b*5)	320000
(d)MarketValueason31.03.2019(b+c)	1320000
(e)NAVason31.03.2020	44
(f)Totalunitsason31.03.2020(d/e)	30000
(g)Noofunitsason31.03.2018Prebonus=30000*5/(5+1)	25000
(h)Noofunitsason31.12.2016Prebonus=25000*4/(4+1)	20000
(i)IssuePriceason01.04.2015Investment1000000/Units purchased 20000 (b/h)	50

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