SSEI
Sanjay Saraf Educational Institute Pvt. Ltd.
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SFM

ICAI May 22 Question Paper Analysis (New Syllabus)

Question 2A

Sanjay Saraf Sir

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Useful links

CA Final SFM | Revisionary Po cast Series

https://forum.sseiqforum.com/question-category/sfm-revisionary-podcast-ca-final/

CA Final SFM Marathon

https://www.youtube.com/watch?v=26QWA4CfMfk&list=PLP3KuMma5JaosdjPUHNc2ulHYtE2t3L-n

CA Final SFM Challenger Series

https://youtube.com/playlist?list=PLP3KuMma5JaqPpUmAstplpMlRcGEjSx6D

Complete SFM Revision Playlist

https://youtube.com/playlist?list=PLP3KuMma5JaoYQubuNJfyXzqS-cA2_uqr

CA Final SFM New Type of Sums

https://www.youtube.com/watch?v=NpQLuVrAE38&list=PLP3KuMma5JaqCwyPksNjQSqOAjRQsbmck

Q. no.	Broad Topic	Sub Topic	Marks	Percentage	Sanjay Sir's Comments
1(a)	FOREX	CURRENCY OF BORROWING	8	6.67%	This is a repeated sum from past papers. It had been done in class comprehensively. I am amazed to see the second part of this sum where they talk about company wanting to hedge and expenses involved in hedging of 30,000. Forward rate is already given in the question. So when we are going for the foreign branch offer, we are already hedging ourself. Has ICAI people completely lost it when they talk about hedge in the second part of the question. Anyways, they perhaps wanted to just showoff their capacity to change existing sums... **Maza Liziye** ***Original sum*** *mein equipment Japan se import kar rahe the……import cost 3400 lakh yen tha….yaha import cost $15000 hai. Waha exchange rate ajib tarah se diya tha(₹100 = yen 340)…yaha exchange rate sarifai se diyahai…₹75/$. Ofcourse additional hedging expenses 30000 deke bewakofoo k najar me hosiar bana hai but buddhimano ki najar me chomu bana hai…and bewakofoo ka sankhya kafi jyada hai.* ***The sum is repeated from the past. Similar sum present in SSEI Study Mat - Book No. 1, Problem 53, Page No. 69***
1(b)	DERIVATIVES	OPTION BASICS	8	6.67%	Personally, I have always regarded this question as one of the most stupidest. The only brains required in this sum is to understand that options have a non – linear pay off. So you cannot use the expected share price to calculate the expected pay off. They have added a fourth part to the question and it has a simple solution. **Maza Liziye** I have always wondered who designed 2nd part of the question…usko noble prize milna chahiye… ***The sum is repeated from the past. Similar sum present in SSEI Study Mat - Book No. 2, Problem 38, Page No. 43***

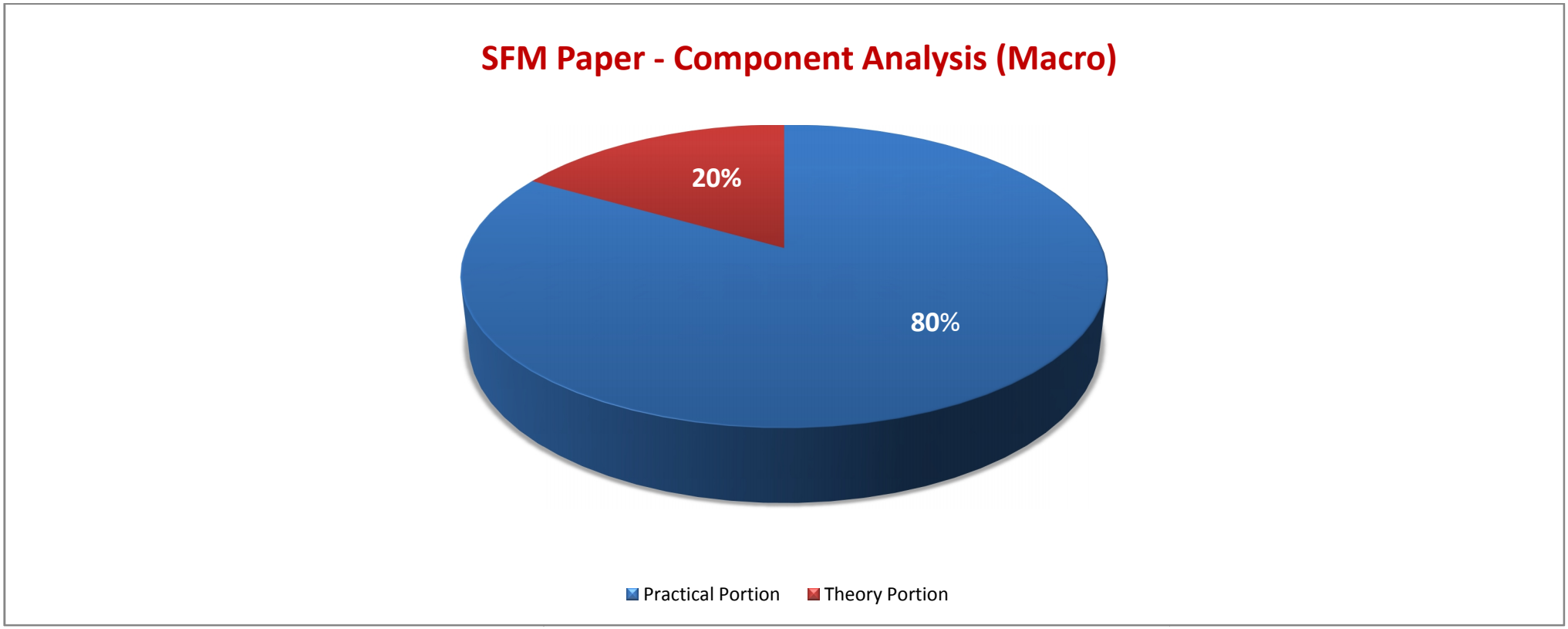
1(c)	INTEREST RATE RISK MANAGEMENT	INTEREST RATE RISK MANAGEMENT	4	3.33%	This is a new theory question from IRRM…I had covered it in a dictated manner in my first batch of the new syllabus in 2017-18. However I found that the student community was not ready to dig so much – that too in theory and so I left focusing on it. I really like this attitude from ICAI…they are getting inside individual chapters and setting theory questions from there. For banks, net interest income (NII) is one of the core parameters that banks need to protect and enhance. Hence a whole lot of risk management disciplines have emerged to hedge NII. **Maza Liziye** Sir par aaptoh bole the sara theory easy aayega… **Jhoot……maine bola tha theory usually comes from the following chapters-** Chapter 1 – Financial Policy and Corporate Strategy Chapter 2 – Risk Management Chapter 6 – Securitization Chapter 11 – Interest Rate Risk Management Chapter 14 – Startup Finance From these chapters, any theory can come and not the one which is popular. So, you got to work hard if you wish to cover all eventualities. Also, theory may come from other chapters…those who not hankering for 100/100 may focus only on the above chapters.
2(a)	MUTUAL FUND	MUTUAL FUND	8	6.67%	I am sure all of you remember this question based on back calculation. First five parts of the sum are repeated. Sixth part is a formality. Obviously, we will choose fund C and E(r) 15% per annum. The seventh part involves exit load which obviously gets deducted from ending NAV and that is used to calculate return once again. ***The sum is repeated from the past. Similar sum done in SFM Revision Series and SFM Dawn series 2022***

2(b)	EQUITY VALUATION	FCFF	8	6.67%	There is just this one sum of FCFE in the past papers and it is repeated…is there a dearth of problems on FCFE. Anyways everyone would have enjoyed. ***The sum is repeated from the past. Similar sum present in SSEI Study Mat - Book No.2, Problem 65, Page No 92.***
2(c)	FINANCIAL POLICY AND CORPORATE STRATEGY	FINANCIAL POLICY AND CORPORATE STRATEGY	4	3.33%	It's a standard theory from chapter 1. ***This question is present in sheet of SFM Theory shared by SSEI***
3(a)	FOREX	ADR/GDR	8	6.67%	Typical sum on calculating cost of GDR. In the last portion of the sum, we are supposed to compare that with cost of debt funds which I think is not an apple to apple comparison. Moreover tax rate is missing. ***The sum is repeated from the past. Similar sum present in SSEI Study Mat - Book No.1, Problem 6, Page No. 10.***
3(b)	PORTFOLIO MANAGEMENT	AMBIGUOUS	8	6.67%	I hope people do remember this question marked by me as ambiguous. In this question we had to calculate beta by the least squares method of regression rather than similar sums of this type where we use CAPM to backout beta. ***The sum is repeated from the past. Similar sum present in SSEI Study Mat - Book No.1, Problem 4, Page No 5.***
3(c)	INTERNATIONAL FINANCIAL MANAGEMENT	INTERNATIONAL FINANCIAL MANAGEMENT	4	3.33%	This type of theory was very popular in old SFM. Its included in my optional classes. Foreign bond means "Issue karne wala firangi" and convertible you obviously know. ***This question is present in sheet of SFM Theory shared by SSEI***
4(a)	EQUITY VALUATION	FCFF	8	6.67%	Good sum on FCFF (atleast better than the stupid sum on FCFE) but it is yet a repeated sum from the past. ***The sum is repeated from the past. Similar sum present in SSEI Study Mat - Book No.1, Problem 45, Page No 64.***

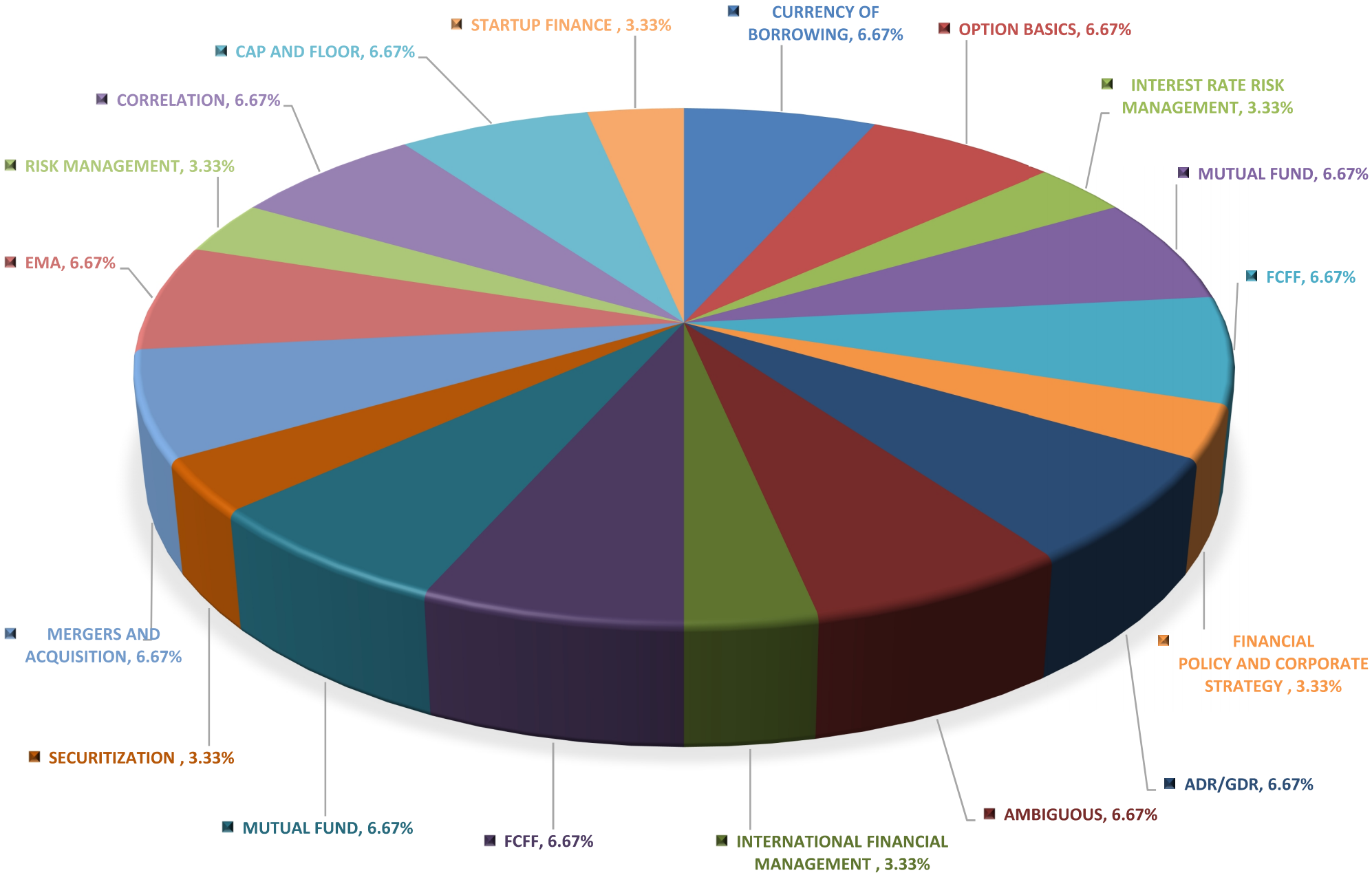
4(b)	MUTUAL FUND	MUTUAL FUND	8	6.67%	This sum as you all know is frequently repeated in past papers. However, they have included information on interim dividend and bonus. Bonus of 1:10 is fine – the fund has additional 2500 shares of XYZ. Interim dividend is confusing because you never know weather ICAI solution will consider this dividend in addition to the RS 8,00,000 dividend given in the question or they will take it to be included in 8,00,000. Accordingly, I have provided two solutions. ***The sum is repeated from the past. Similar sum present in SSEI Study Mat - Book No.3, Problem 4, Page No 193.***
4(c)	SECURITIZATION	SECURITIZATION	4	3.33%	Most popular repeated theory. ***The question is repeated from the past. It is present in SSEI Study Mat - Book No.3, Page No 58.***
5(a)	MERGERS AND ACQUISITION	MERGERS AND ACQUISITION	8	6.67%	Repeated sum marked as ambiguous in class due to the second part. ***The sum is repeated from the past. Similar sum present in SSEI Study Mat - Book No.3, Problem 34, Page No. 328.***
5(b)	EQUITY VALUATION	EMA	8	6.67%	Sums on EMA have become very frequent and I am sure you had prepared the same. The formula for the exponent (2/n+1) was revised by me as compared to the earlier formula (2/n). Hence it is necessary to remain updated. And you know how smartness is required in writing the answer to the third part. ***The sum is repeated from the past. Similar sum present in SSEI Study Mat - Book No.2, Problem 69, Page No 97.***
5(c)	RISK MANAGEMENT	RISK MANAGEMENT	4	3.33%	Typical theory from chapter 2 RM. ***The question is repeated from the past. It is present in SSEI Study Mat - Book No.3, Page No 49.***
6(a)	PORTFOLIO MANAGEMENT	CORRELATION	8	6.67%	Calculation of correlation – an eight column table as we use to do so many times in class. Of course you can apply other versions of the stats formula as ICAI often does. ***The sum is repeated from the past. Similar sum present in SSEI Study Mat - Book No.1, Problem 28, Page No.46.***

6(b)	IRRM	CAP AND FLOOR	8	6.67%	This question on cap and floor was specifically marked as important in class. Infact, doubt on this question has been asked on Q forum atleast 10 times. ***The sum is repeated from the past. Similar sum present in SSEI Study Mat - Book No.2, Problem 11, Page No. 100.***
6(c)	STARTUP FINANCE	STARTUP FINANCE	4	3.33%	Typical theory on angel investors/startup. ***The question is repeated from the past. It is present in SSEI Study Mat - Book No.3, Page No 81.***

Practical Portion	**96**	**80.00%**
Theory Portion	**24**	**20.00%**
Total	**120**	**100%**



SFM PAPER - COMPONENT ANALYSIS (MICRO)



Question 2.

a. Mr. D had invested in three mutual funds (MF) as per the following details :

Particulars	MF 'A'	ME 'B'	MF 'C'
Amount of Investment	2,00,000	5,00,000	4,00,000
NAV at the time of purchase	10.00	25.00	20.00
Dividend Yield up to 31.03.2022	3%	5%	4%
NAV as on 31.03.2022	10.50	22.80	20.80
Annualized Yield as on 31.03.2022	9.733%	-11.185%	15%

Assume 1 Year = 365 Days.

Mr. D has misplaced the documents of his investments.

You are required to help Mr. D to find out the following:

i. Number of units allotted in each scheme

ii. Value of his investments as on 31.03.2022

iii. Holding period of his investments in number of days as on 31.03.2022

iv. Dates of original investments

v. Total Return on investments

vi. Assuming past performance of all three schemes will continue for next one year, what action the investor should take? What will be the expected return for the next one year after the above action?

vii. Will your answer as above point no. (vi) changes if the Mutual fund charges exit load of 5% if the investment is redeemed within one year? If so, advise the investor what and when the action to be taken to optimise the returns.

Answer:

i. Number of Units in each Scheme

MF X	₹2,00,000/₹10	20,000
MF Y	₹5,00,000/₹ 25	20,000
MF Z	₹ 4,00,000/₹20	20,000

ii. Value of his investment as on 31.03.2022

MF 'X' =20,000 x ₹ 10.50	₹ 2,10,000
MF 'Y' =20,000 x ₹ 22.80	₹ 4,56,000
MF 'Z' = 20,000 x ₹ 20.80	₹ 4,16,000
Total	**₹ 10,82,000**

iii. Holding period of his investment in number of days as on 31.03.2022

	Capital Yield(%)	Dividend Yield(%)	Holding period yield (%)	Annualized yield(%) given	Holding period-No. of days(Rounded off)
MF 'X'	[(10.50-10)/10]×100 =5%	3%	8%	9.733%	(8/9.733)×365= 300 days
MF 'Y'	[(22.80-25)/25]×100 =-8.8%	5%	-3.8%	-11.185%	(-3.8/-11.185)×365=117days
MF 'Z'	[(20.80-20)/20]×100 =4%	4%	8%	15%	(8/15)×365=195 days

iv. Date of original investment

	MF 'X'	MF 'Y'	MF 'Z'
No. of days	300	117	195
Date of Original Investment	03.06.21	03.12.21	02.09.21

v. Total return on investment

	Capital Yield(₹)	Dividend Yield(₹)	Total(₹)
MF X	₹2,10,000-₹2,00,000= 10,000	2,00,000×3%=6000	16,000
MF Y	4,56,000-5,00,000= -44,000	5,00,000×5%=25000	-19,000
MF Z	4,16,000-4,00,000= 16,000	40,0000×4%=16000	32,000
Total			29,000

Total return on investment = (29,000/11,00,000)×100=2.6364%

vi. Since highest annualized return is provided by MF Z and past performance is expected to be repeated in future, investor should invest his entire funds in MF Z.

vii. If we consider exit load of 5%, calculation of annualized return is as follows-

	NAV as on 31.03.22	Redemption price net off exit load	Capital Yield (%)	Dividend Yield (%)	Holding period yield (%)	Holding period	Annualized yield (%) given
MF 'X'	10.50	9.975	[(9.975-10)/10]×100 =-0.25%	3%	2.75%	300	(2.75×365)/300 =3.35%
MF 'Y'	22.80	21.66	[(21.66-25)/25]×100 = -13.36%	5%	-8.86%	117	(-8.86×365)/117 =-27.64%
MF 'Z'	20.80	19.76	[(19.76-20)/20]×100 = -1.20%	4%	2.8%	195	(2.28×365)/195 =5.24%

So, MF Z is still the best because the exit load of 5% is uniform across all funds. Perhaps investor should increase his investment horizon beyond one year to avoid exit load and enjoy higher returns. Anyways, based on past performance, MF Z is the best.

Sanjay Sir's Comment:

I am sure all of you remember this question based on back calculation. First five parts of the sum are repeated. Sixth part is a formality. Obviously, we will choose fund C and E(r) 15% per annum. The seventh part involves exit load which obviously gets deducted from ending NAV and that is used to calculate return once again.

I have always wondered who designed 2nd part of the question…usko noble prize milna chahiye…

The sum is repeated from the past. Similar sum done in SFM Revision Series and SFM Dawn series 2022.

Original Sum

PROBLEM:-

Mr. Y has invested in the three mutual funds (MF) as per the following details:

Particulars	MF 'X'	MF 'Y'	MF 'Z'
Amount of Investment (₹)	2,00,000	4,00,000	2,00,000
Net Assets Value (NAV) at the time of purchase (₹)	10.30	10.10	10
Dividend Received up to 31.03.2018 (₹)	6,000	0	5,000
NAV as on 31.03.2018 (₹)	10.25	10	10.20
Effective Yield per annum as on 31.03.2018 (percent)	9.66	-11.66	24.15

Assume 1 Year = 365 days

Mr. Y has misplaced the documents of his investment. Help him in finding the date of his original investment after ascertaining the following:

i. **Number of units in each scheme;**

ii. **Total NAV;**

iii. **Total Yield; and**

iv. **Number of days investment held.**

SOLUTION :-

(i) Number of Units in each Scheme

MF 'X'	₹ 2,00,000 / ₹ 10.30	= 19,417.48
MF 'Y'	₹ 4,00,000 / ₹ 10.10	= 39,603.96
MF 'Z'	₹ 2,00,000 / ₹10.00	= 20,000.00

(ii) Total NAV on 31.03.2018

MF 'X'	= 19,417.48 x ₹ 10.25	₹ 1,99,029.17
MF 'Y'	= 39,603.96 x ₹ 10.00	₹ 3,96,039.60
MF 'Z'	= 20,000.00 x ₹ 10.20	₹ 2,04,000.00
Total		₹ 7,99,068.77

(iii) Total Yield

	Capital Yield	Dividend Yield	Total
MF 'X'	₹ 1,99,029.17- ₹ 2,00,000 = - ₹ 970.83	₹ 6,000	₹ 5,029.17
MF 'Y'	₹ 3,96,039.60 - ₹ 4,00,000 = - ₹ 3,960.40	Nil	- ₹ 3,960.40
MF 'Z'	₹ 2,04,000 - ₹ 2,00,000 = ₹ 4,000	₹ 5,000	₹ 9,000.00
Total			₹ 10,068.77

$$\text{Total Yield} = \frac{₹10,068.77}{₹\ 8,00,000} \times 100 = 1.2586\%$$

(iv) No. of Days Investment Held

	MF 'X'	MF 'Y'	MF 'Z'
Let No. of days be	X	Y	Z
Initial Investment (₹)	2,00,000	4,00,000	2,00,000
Yield (₹)	5,029.17	-3,960.40	9,000.00
Yield (%)	2.5146	- 0.9901	4.5
Period of Holding (Days)	$\frac{2.5146}{9.66} \times 365$ = 95 Days	$\frac{-0.9901}{-11.66} \times 365$ = 31 Days	$\frac{4.5}{24.15} \times 365$ = 68 Days
Date of Original Investment	26.12.17	28.02.18	22.01.18