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# PRESIDENCY UNIVERSITY BENGALURU

# SCHOOL OF MANAGEMENT

#### MID TERM EXAMINATIONS

Sem & AY: Odd Sem 2019-20

Course Code: FIN 201

Course Name: INVESTMENT MANAGEMENT

Program & Sem: MBA & III

Date: 18.10.2019

Time: 11:00AM to 12:30PM

Max Marks: 40

Weightage: 20%

#### instructions:

i. Answer all the Questions.

#### Part A [Memory Recall Questions]

#### Answer all the Questions. Each Question carries two marks.

(3Qx2Ni=6M)

1. What is Market Risk? How can an investor overcome Market Risk?

(C.O.NO.1) [Knowledge]

2. What is the significance of Correlation with regard to a Portfolio? Explain.

(C.O.NO.3) [Comprehension]

3. State any five attributes of Real Estate investment. (C.O.NO.1) [Comprehension]

#### Part B [Thought Provoking Questions]

#### Answer all the Questions. Each Question carries five marks.

(4Qx5M=20M)

4. The Share price of Suzlox Ltd. for a four year period is given below:

Year	Opening Price ₹	Closing Price ₹	Dividend ₹
2015	120	138	2.50
2016	138	154	2.00
2017	154	128	1.50
2018	128	168	2.00

From the above information, compute the CAGR of the Investment Returns.

(C.O.NO.2) [Application]

5. Mr Harish has provided the following details of his mutual fund investment portfolio for the Year 2018-19: (C.O.NO.2) [Application]

Asset	Opening	Closing Value
	Value	
Equity Mutual Funds	250000	280000
Debt Mutual Funds	150000	180000
Gold Funds	100000	115000
Liquid Funds	500000	530000

What is the returns earned by this portfolio for the Year 2018-19?

- 6. What is risk of an investment? Also state how investment risks are classified? (C.O.NO.1) [Knowledge]
- 7. From the given information, compute the Covariance between the stock and the market index and interpret the same: (C:O.NO.3) [Application]

Year	Returns of Stock	Returns of Market Index
2015	10%	15%
2016	12%	14%
2017	-6%	6%
2018	10%	10%
2019	18%	6%

Part C [Problem Solving Questions]

#### Answer the Questions, Question carries fourteen marks.

(1Qx14N=14M)

8. Mrs Maya is planning to invest in a two stock portfolio consisting of 50% of Reliance Industries and the balance 50%, **either of** Tata Steel **or** Tata Motors. The variables pertaining to the stocks are as follows: (C.O.NO.2&3) [Application]

Variable	Reliance Industries	Tata Steel	Tata Motors
Expected Returns	18%	12%	10%
Expected Standard Deviation	24%	20%	15%

The expected correlation between the stocks is as follows:

, personal and the second of t	Reliance Industries	Tata Steel	Tata Motors
Reliance Industries		0.75	0.35
Tata Steel	0.75	-	0.60
Tata Motors	0.35	0.60	552

# Using the above information

- a) Compute the Returns and Risk of Portfolio Reliance Ind. and Tata Steel. [6M]
- b) Compute the Returns and Risk of Portfolio Reliance Ind. and Tata Motors. [6M]
- c) Advice Mrs Maya as to which of the two portfolios she should invest in based on risk and return. [2M]

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# **SCHOOL OF MANAGEMENT**



Semester: Odd Sem 2019-20

Course Code: FIN 201

**Course Name: Investment Management** 

Date:

Time: 2 Hours

Max Marks: 40

Weightage: 20

# Extract of question distribution [outcome wise & level wise]

Q.NO	C.O.NO	Unit/Module Number/Unit /Module Title	[Ma	[Marks allotted] [Bloom's Levels		prov [Mar	ks all	j type		Problem Solving type [Marks allotted]		Total Marks
			K		С		А					
1	1	1		2								2
2	3	1					2					2
3	1	1					2					2
4	2	1								5		5
5	2	1			-11.00					5		5
6	2	1		5	****							5
7	3	1								5		5
8	2 & 3	1								14		14
	Total Marks			7			4			29		40

K =Knowledge Level C = Comprehension Level, A = Application Level

Note: While setting all types of questions the general guideline is that about 60%

Of the questions must be such that even a below average students must be able to attempt, About 20% of the questions must be such that only above average students must

be able to attempt and finally 20% of the questions must be such that only the bright students must be able to attempt.

I hereby certify that all the questions are set as per the above guidelines. [Name of faculty]

Reviewer's Comments:

# **Annexure- II: Format of Answer Scheme**



# SCHOOL OF MANAGEMENT

## SOLUTION

Date:

Semester: III Sem MBA

Time: 2 Hours

Course Code: FIN 201

Max Marks: 40

Course Name:

Weightage: 20

Part A

 $(3Q \times 2M = 6 \text{ Marks})$ 

Q No	Solution	Scheme of Marking	Max. Time required for each Question
1	Market Risk is the most important type of systemic risk. It is the variability in the returns of a security due to the variability in the market. Any amount of diversification within a market will not reduce market risk. Market Risk of one market can be reduced by diversifying across markets. For Eg. Equity and Debt.	What? - 1 Mark How to Reduce – 1 Mark	5 Minutes
2	Diversification is enhanced depending upon the extent to which the returns of assets "move" together. If the Correlation of returns of two assets is equal to +1, then the combination of assets (portfolio) would not lead to any diversification.	Based on key words and Content	5 minutes
3	<ul> <li>Medium Risk- Medium Return</li> <li>Suited for earning regular Income and Capital Appreciation</li> <li>Medium to Long Time Horizon</li> <li>It is Inflation Hedge</li> <li>Prone to Liquidity Risk</li> </ul>	Based on Points	5 Minutes

Q												Scheme of	Max.
No		Solution										Marking	Time require for each Questic n
4	Year		ening rice ₹		sing ce ₹	Div	vidend ₹	Retu				Steps 3 Marks  Correct Answer	10 minute
	2015	,	120	1	38		2.5	0.1708	33333	1.17083	3	2 Marks	
	2016		138	1	54		2	0.1304	13478 3	1.13043	5		
	2017		154	1	28		1.5	0.1590	- 09090 9	0.84090	9		
	2018		128	1	68		2	0.3	28125	1.32812	5		
										1.47818			
								CAGR		1.10263			
5	Asset		Oper Va	ning alue			Weight	Returns	,	Contrib ion	ut	Steps 3 Marks Correct Answer	10 Minute
	Equity Mutual Funds		250	000	00 280000		0.25		0.12	0	.03	2 Marks	
	Debt Mutual Funds		150	0000	180	000	0.15		0.2	0	.03		
	Gold Funds		100	0000	115	000	0.1		0.15	0.0	015		
	Liquid Funds		500	0000	530	0000	0.5		0.06		.03		
			100	0000			D'alair als	a saified	og Crist		.5%	Points 5 Marks	10
6	Unsysten	nic R and F	isk. Syst Regulato	emic	Risk in	iclude	Risk is class Market, nic Risks in	Interest	Kate, I	niiation	and		Minute
7	and Biqu	1410)					Davis		Dev M	De M	v S X	Steps 4 Marks	10 Minute
	20	015	Stock	10	ndex	1	Dev s	1.2		4.80	5.7	6 Interpretation 1	Timate
		016		12			4	3.2		3.80	12.1	6 Mark	
	20	017		-6			6	-14.8		4.20	62.1		. Marie Control
		018		10			0	1.2		0.20	-0.2		
	2	019	L	18		10.2	6	9.2	•	-4.20	-38.6 41.2	i	
			8	.80		10.2						1	

 $(1Q \times 14M = 14Marks)$ 

				Par	t C			$(1Q \times 14)$	M = 14Ma	rks)	
										Scheme	Ma
Q				So'	lution					of	requ
N					1412011					Markin	0
o										g	Qı
		RIL &	RIL &							Steps 12	30 N
8		TS	TM	0.5	24	576	0.25	144		Marks	
0	Portfo	, -								Correct	
	lio									Correct Answe	
	Retur			0.5	20	400	0.25	100		2 Marks	
	ns	15	14	0.5	20	400	0.23	100		2 11111111	
	Portfo										
	lio	20.6	16.2		0.75			180			
	Risk				0			424	20.5	9	
	CV	1.37	1.10								A
		RIL &									
		TM									
		takes a									
		lesser risk for	r								
	ĺ	a rupee									
		of									
		return		0.5	24	576	0.25	144			
		earned		0.5	15	225		56.25			
				0.0	0.35			63			
					0.00			263.25	16.	22	



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# PRESIDENCY UNIVERSITY BENGALURU

# SCHOOL OF MANAGEMENT

#### **END TERM FINAL EXAMINATION**

Semester: Odd Semester: 2019 - 2020

Course Code: FIN 201

Course Name: INVESTMENT MANAGEMENT

Program & Sem: MBA & III

Date: 24 December 2019

Time: 1.00 PM TO 4.00 PM

Max Marks: 80

Weightage: 40%

#### Instructions:

(i) Read the all questions carefully and answer accordingly.

#### Part A [Memory Recall Questions]

#### Answer all the Questions. Each Question carries 5 marks.

(6Qx5M=30M)

1. Describe the different investment alternatives and criteria for their evaluation.

(C.O.No.1) [Knowledge]

2. What is the significance of Security Market Line in the capital asset pricing model?

(C.O.No.2) [Knowledge]

3. Which are the main methods of fundamental equity valuation?

(C.O.No.3) [Knowledge]

4. Outline the Bond portfolio management strategies.

(C.O.No.5) [Knowledge]

5. Describe three types of charting techniques used in Technical Analysis.

(C.O.No.4) [Knowledge]

6. What is the relationship between interest rates and duration of bond?

(C.O.No.5) [Knowledge]

## Part B [Thought Provoking Questions]

#### Answer all the Questions. Each Question carries 5 marks.

(4Qx5M=20M)

7. Compute the Beta of the Stock based on the returns of Stock and the Market Index for 5 years given below: (C.O.No.2) [Comprehension]

Year	Stock	Market			
	Return	Return			
1	15%	12%			
2	12%	10%			
3	-5%	1%			
4	7%	4%			
5	2%	3%			

8. The details of a bond are as follows:

(C.O.No.2) [Comprehension]

Face Value	Rs 800
Coupon Rate	10% pa
Coupon Payment	Annual
Maturity	4 Years
Price	Rs 890

From the above, calculate the following:

- a) Yield to Maturity of the Bond using approximation method.
- b) The price you would pay for the bond if your required rate of return is 7.5% per annum.
- 9. The current dividend on an equity share of Tristar is Rs. 2.00. Tristar is expected to enjoy an above-normal growth rate of 18 percent for a period of 6 years. Thereafter the growth rate will fall and stabilize at 12 percent. Equity investors will require a return of 16 percent.

What is the intrinsic value of the equity share of Tristar?

(C.O.No.4) [Comprehension]

10. The expected returns of two stocks under four possible states are given below:

(C.O.No.2) [Comprehension]

State		Stock A	Stock B
	Probability	Returns	3
1	0.20	-5%	10%
2	0.30	15%	12%
3	0.40	18%	14%
4	0.10	22%	18%

From the above information calculate:

- a) The Expected Returns of both the Stocks
- b) The Covariance between the Stocks

# Part C [Problem Solving Questions]

#### Answer both Questions. Each Question carries 15 marks.

(2Qx15M=30M)

11. The performance of three portfolios and Market Index for the year is provided below: (C.O.No.5) [Application]

Portfolio	Returns %	Risk %	Beta
А	15%	20%	0.9
В	17%	24%	1.1
С	19%	27%	1.2
Market	16%	20%	
Risk Free Return	10%		

You are required to

- a) Evaluate and rank the portfolio's based on Sharpe, Treynor and Jensen Models
- b) Comment on the Performance of the Portfolios with regard to Out performance and Under performance with regard to the Market
- 12. An investor wants to create a 2 Asset Equal Weighted Portfolio from out of the 3 stocks selected below. The details of the returns for the past 3 years for these stocks is as follows:

  (C.O.No.3) [Application]

Year	Stock A	Stock B	Stock C
1	16%	14%	12%
2	10%	12%	7%
3	5%	8%	10%

	AB	BC	AC
Covariance	16.33	7.65	6.16

You are required to advise the investor a suitable combination of 2 Stocks for creating the Portfolio. Provide all the calculations and reasoning for your advice.

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# **SCHOOL OF MANAGEMENT**

#### **END TERM FINAL EXAMINATION**

## Extract of question distribution [outcome wise & level wise]

			Memory recall	Thought		
Q.NO	C.O.NO	Unit/Module	type	provoking type	Problem Solving	Total
	(% age	Number/Unit	[Marks allotted]	[Marks allotted]	type	Marks
	of CO)	/Module Title	Bloom's Levels	Bloom's Levels	[Marks allotted]	
			К	С	A	
1	CO1	Module 1	5			5
2	C01	Module 2	5			5
3	CO3	Module 3	5			5
4	CO5	Module 4	5			5
5	CO4	Module 3	5			5
6	CO5	Module 2	5			5
7	CO2	Module 2		5		5
8.	CO2	Module 2		5		5
9	CO2	Module 3		5		5
10	CO2	Module 1		5		5
11.	CO3	Module 4			15	15
12	CO3	Module 4			15	15
	Total Ma	ırks	30	20	30	80

K = Knowledge Level C = Comprehension Level, A = Application Level

Note: While setting all types of questions the general guideline is that about 60%

Of the questions must be such that even a below average students must be able to attempt, About 20% of the questions must be such that only above average students must be able to attempt and finally 20% of the questions must be such that only the bright students must be able to attempt.

I hereby certify that all the questions are set as per the above	e guidelines.

Faculty Signature:

Reviewer Commend:

# **Format of Answer Scheme**



# **SCHOOL OF MANAGEMENT**

#### **SOLUTION**

Semester:

Odd Sem. 2019-20

Date:

24.12.2019

Course Code:

FIN 201

Time:

3 HRS

Course Name:

INVESTMENT MANAGEMENT

Max Marks: 80

Weightage: 40%

Program & Sem: MBA & III

#### Part A

 $(0Q \times 0M = 0Marks)$ 

Q No	Solution	Scheme of Marking	Max. Time required for each Question
1	Bonds, shares, MF, Real estate, bank deposits etc, Risk, return, liquidity, convenience, tax		5
2	CAPM tries to establish a risk return relationship. The returns from a portfolio or security is dependent on its systemic risk as represented by risk free return and beta.		5
3	Balance Sheet, Discounted cash flow and Relative valuation		5
4	Immunization, active, passive, interest rate anticipation, yield spread		5
5	The Dow theory, Bar and Line charts, Point and figure chart Moving average analysis, Relative strength analysis		5
6	Duration, Modified duration impact of interest rates		5

#### Part B

 $(0Q \times 0M = 0 \text{ Marks})$ 

Q	Solution	Scheme of	Max. Time required
No		Marking	required for each Question

		1	15%	0.09	12%	0.06	0.00528	0.0036	15
7		2	12%	0.06	10%	0.04	0.0024	0.0016	
		3	-5%	-0.11	1%	-0.05	0.0055	0.0025	
		4	7%	0.01	4%	-0.02	-0.0002	0.0004	
		5	2%	-0.04	3%	-0.03	0.0012	0.0009	
	Sum		0.31		0.30		0.01418	0.009	
	Mean		0.06		0.06		Variance	0.00225	
					Cov		0.003545		
	\F00 . (	00\/41//	0.0+000.0	14000) 0	Beta		1.58		
	a)[80+( b) Rs 8		U.6^89U+C	0.4*800)=6	5.73%				15
8	<i>b)</i> 113 0	.00.00.		PV@7.5%					
		1	80.00	74.42					
		2	80.00	69.23					
		3	80.00	64.39					
		4	880.00	<u>658.95</u>					
				866.99					
9.	2.26 (	(1 (1 1	00//1 1/04	C//O 1 C O 1	0)) + 2 26	(1.10)	(1.10) / (0.16	0.10)	15
	2.36 x( 1/(1.16 <sup>7</sup>	, ,	8′`0/1.10′`0	5/(0.16-0.1	8)) + 2.36 x	(1.18)^5 X	(1.12)/(0.16	– 0.12) X	
	= Rs.74.	•							
10.	<i>a) E (R</i> 1	1) = 0.2(-	5%) + 0.30	(15%) + 0.4	4(18%) + .1	0(22%) =	12.9 %		15
		= 0.2(10	%) + 0.3(3)	12%) + 0.4	(14%) + .10	0(18%) = 1	3%		
	(b)	Probabi	ility Retu	rn Devic	ution 1	Return L	Deviation Pi	underest of	
	siaie	1 robabl	asse.					roduct of eviation	
			abbe.	on as		•		nes	
						а	sset 2 pr	obability	
	(1)	(2)	(3)	(4)				)x(4)x(6)	
	1 2	0.2 0.3	-5% 15%					).74 .63 %	
	3	0.3	18%					.03 % 04	
	4	0.1	22%					55	
	Sum =						1	6.7	

# Part C

 $(0Q \times 0M = 0Marks)$ 

Q No			So	lution	1		Scheme of Marking	Max. Time required for each Question
11.	Chama		Тиоми					35
	Sharpe		Treynor		Jensen			
	0.25	3	5.56	3	-0.40%	3		
	0.29	2	6.36	2	0.40%	2		
	0.33	1	15.83	1	1.80%	1		
Parameter Co.	0.30		6.00					

12.		АВ	ВС	AC	
	RETURN	10.83	10.5	10	
	RISK	4.25	2.78	3.06	
	CV	0.39	0.26	0.31	