Name:

**Enrolment No:** 



## UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

**End Semester Examination, May 2019** 

Course: MBA Core-Finance Semester: II
Program: Investment Analysis and Portfolio Management Time: 03 Hours

Course code: FINC 7021 Max. Marks: 100

**Instructions: Attempt all Questions** 

	SECTION A	(2*	10=20)
		Marks	CO
Q 1	Multiple choice Questions		
I	On the capital market line		
	a) All efficient and inefficient portfolio		
	b) Only the efficient portfolio	2	3
	c) All the efficient portfolios and securities		
	d) All portfolios and securities		
II	The stock above the security market line is		
	a) Overpriced		
	b) Underpriced	2	3
	c) Appropriately priced		
	d) Of high risk		
III	According to efficient market theorists the stock price		
	a) moves in trend		
	b) each successive change depends on the previous one	2	2
	c) price movements creates patterns	<b>4</b>	4
	d) each successive change does not depends on the previous one		
IV	The price earnings ratio of the stock reflects		
	a) Growth of the company		
	b) Earnings retained and invested in the company	2	3
	c) Dividend pay-out for the company's stock		
	d) Market mood for the company's stock		
V	Sell Reliance X company shares at Rs 60. This order is a		
	a) best rate order		
	,	2	2
	'		
	c) discretionary order		

	d) stop loss order				
VI			ne number of covariances have to ocks, the covariances that have to		2
VII	Company X has a beta of interest is 5%. What is the a) 6.67% b) 10.33% c) 15.66% d) 12.33%	-	eturn is 15% and the risk free rate	of <b>2</b>	2
VIII	Risk lover's utility curves h  a) Positive slope b) Negative slope c) Convex to origin d) Negative slope and			2	3
IX	Mr. Kartik purchased trease  a) He wants to maxim b) The returns are cert c) Minimum variance d) There is assurance of	2	3		
X		with the combinati	on of stocks and bonds in the ratio	of <b>2</b>	3
		SECTI	ON B	(5*	4=20)
				Marks	CO
Q 2	What are the steps involved Explain the constraints in form		pproach to portfolio construction. ives.	5	1
Q 3	Define Markowitz Diversif Markowitz to reduce risk.	ication. Explain the	statistical methods used by	5	2
Q 4	Expected Return Expected Variance Covariance	Stock Y 20 16 16	Z:  Stock Z  30  25  25	5	3
	Is there any advantage of to	hold a combination	of Y and Z?		

		SECTION-C(	(Attempt Any Two)		(15	5*2=30)
Q 6	Corporation X and Y preserve year.  Rx = 15% Variance Ry = 18% Variance rxy = 0.6 The portfolio risk (4.03. Determine the level of portfolio weighted portfolio	15	2,3			
Q 7	Z b) Is Y comparatively	e Y 22 14 -4 d rates or return, variation of their chances of their chance		year are given	15	3
Q 8	Explain the nature of portf  a) A perfect positive of b) A perfectly negative of the control of	correlation ve correlation ion	ities have		15	3,4
		SECTION	N-D		(30	*1=30)
Q 9	An investor received Rs 1 stock market. The treasury following table gives detail of individual security. What	30	3,4			
		R <sub>i</sub>	β 0.75	σ <sub>ei</sub> <sup>2</sup> 25		

В	18	1.3	16		
С	16	1.3	16		
D	12	0.75	16		
Е	10	0.6	9		
F	15	1.8	36		
	C D E	C 16 D 12 E 10	C 16 1.3  D 12 0.75  E 10 0.6	C 16 1.3 16 D 12 0.75 16 E 10 0.6 9	C 16 1.3 16 D 12 0.75 16 E 10 0.6 9

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## **SECTION A** (2\*10=20)

		Marks	CO
Q 1	Multiple choice questions		
I	The efficiency frontier becomes a straight line throughout because of the		
	a) Introduction of risk-free rate		
	b) Introduction of lending	2	2
	c) Introduction of lending and borrowing		
	d) Introduction of risky assets		
II	The security market line's first point is a risk free asset with a beta of zero and the second point on the line is one with a beta of		
	a) 1	2	3
	b) 1.5		
	c) 2 d) 0.5		
III	Market imperfections may lead to		
	a) overpriced		
	b) underpriced	2	3
	c) appropriately priced	_	
	d) of high risk		
IV	The problem with the Markowitz model is that a number of covariances have to be		
	estimated. For example for a portfolio of 30 stocks, the covariances that have to be		
	estimated are		
	a) 300	2	2
	b) 350	2	4
	c) 435		
	d) 450		

V	To adopt the Sharpe index model for a portfolio of 40 stocks, the number of bits of information one needs are		
	a) 80	2	3
	b) 100		
	c) 120		
	d) 122		
VI	The relationship of stock X's return with the stock index return is given by its		
	correlation coefficient being 0.8. What is the percentage of variation explained by the		
	index?		
	a) 80	2	2
	b) 64		
	c) .60		
VII	d) 20 Markovitz approach has roots in		
VII	Markowitz approach has roots in		
	a) Good portfolio management	_	_
	b) Proper entry and exit in the market	2	2
	c) Estimation of stock return		
	d) Analysing the risk and return to stocks		
VIII	Risk in the purchase of Infosys and Satyam stocks will be eliminated when		
	a) $r = +0.2$		
	b) r = -1	2	2
	c) $r = 0$		
	d) $r = 0.1$		
IX	The spot price of a stock is Rs 20 and the risk free interest rate is 10 %. Which of the		
	following is the future price of the stock with simple interest calculations.		
	a) 21		
	b) 23	2	3
	,		
	c) 22		
***	d) 24		
X	Market imperfections may lead to		
	a) Lower SML		
	<ul><li>b) Higher SML</li><li>c) Band of SML</li></ul>	2	2
	c) Band of SML d) Non-linear SML		
	d) Will-Inical Sivil		
	SECTION B		(5*4=20)
Q 2	Distinguish between the security market line and capital market line.	5	2
Q 3	Q3: Explain CAPM theory and its validity in the stock market.	5	2
0.4	Assume that the might free mate of natural is 7 nament. The months of natural is 7		
Q 4	Assume that the risk free rate of return is 7 percent. The market portfolio has an expected return of 14.0% and a standard deviation of return of 25.0%. Under the	5	2
	expected return of 14 % and a standard deviation of return of 25 %. Under the		

	equilibrium conditions as described by CAPM, what would be the expected return for a portfolio having no unsystematic risk and 20 % standard deviation of return?									
Q 5	Consider two situations: Kirtiraj is a young professional in his 20's and Bhaskar is another young man in his late 30's. Assume both earn same amount of money. Bhaskar has a family, a house, a car and all other trappings of a married life. Both wish to invest in securities. What would be there constraints and objectives according to traditional approach to portfolio construction.								5	2
					SECT	ΓΙΟΝ-C			(15	*2=30)
Q 6	details, finequally over Compainty Infosys Satyam Oracle IBM Market Remarket Remarke	nd out he ver the s α 0.17 2.48 1.47 2.52 eturn (Return Valenter)	is portfotock.  β  0.93  1.37  1.73  1.17  m) = arriance =	Residual variation and Residual variation and Residual variation and A5.15  132.25  196.28  51.98  = 11 = 26	l portfoli	io variance	four stocks. W	nent is spread	15	4
Q 7		curities	that are	etual Returns  33			Dowing details, derpriced in terms   Σ  0.50  0.35  0.40  0.24		15	3

	E		0.21	1.05		0.28			
	F		0.14	0.70		0.18			
	Ni	fty index	0.13	1.00		0.20			
	T-	bills	0.09	0		0.0			
Q 8				of CAPM mod rtfolio manag		e the advan	tages of	15	3
	T ddopun	g the ern w	model in po		TION-D			(30*	<b>1=30</b> )
	portfoli Com		370. THE IOII	owing securit β	$\sigma_{\rm ei}^2$		па ше орин	lum	
	pany								
	Anil	3.72		0.99	9.35				
	Avil	0.60		1.27	5.92			30	3,4
	Bow	0.41		0.96	9.79				
	Viril	-0.22		1.21	5.39				
	Billy	0.45		0.75	4.52				