(Do not write anything on question paper except Roll No.) [This paper consists of THREE Pages]

Jagan Institute of Management Studies

End-Term Examination, September-October, 2017 Trimester IV – PGDM 2016-18

Security Analysis & Portfolio Management ET_PG_SAPM_0410

Time: 3 Hrs. M. Marks: 70

INSTRUCTIONS: Attempt any SIX questions including Q1 which is compulsory.

Q 1 a) The Roe and Boa corporations have the following expected risks and returns for the next year.

	Roe	Boa	
Return	20%	23%	
Std. dev.	21%	25%	
Coeff. of correlation	0.4		

Find out portfolio risk and return if 50% of funds are allocated for each stock.

b) Examine the market efficiency using Run test for the following stock prices.

(Given Z at $5\% = \pm 1.96$)

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2-Sep 2-Oct 2-Nov

Stock

208.7 163.15 191.25 186.6 162.3 175.3 151.55 135.15 123.4

The following historical rate of return information is provided for Funky c) Software Co. and the stock market:

Year	Funky Return	Market Return
	(%)	(%)
2010	12	15
2011	9	13
2012	-11	14
2013	8	-9
2014	11	12
2015	4	9

- What is Funky's measure of systematic risk? What do their i) sign signify?
- What is Funky's return if market return is 10%? ii)

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3-Jun

154.55

Q 2		Draw a p Indifferer portfolio	ice curve	for an i	nvestor	: Elab	orate tl					0
Q 3	a)	CAPM st							n how	it is used	to 5	
	b)	In 1970,							esis. I	Describe t		
		three form									5	
Q 4	a) b)	Do you the Justify. A technic of 20 day that more immediated 9,940 could be near future of this standard with the are generated at the strength I Date Price	al analystes moving mentum is resistared the only re," What attement, each 3 different stood	t reports averagindicato ace can stronger signal do you elucidate ent price	that "Te (DMA) The (DMA) The second that manders The the manders The patters The patters The of A	The made A) at the also en at 1 over the browing as used BC stores	rket is ne presonant presonant for the contract of the contract of the core of	taking ent levels. term we sell is state e, resistant the l	the streets and he ma here a ling prent? stance analys	ong supported along with the flip side close below the light and supports.	ort ith ere de, ow ver ght ort	
Q 5		The mean and an investmen	vestor. Do								st 10	0
Q 6		Recently, Broking, the develonas starte Explain	said that ' oped mar d declinir	"Risk ap ket, is p ng". Wh	petite, eaking at does	not on out ar this s	ly in U nd it is tatemei	S but e worris nt mean	ven in ome th n to sto	Europe a nat liquidi ock marke	nd ity et?	

Q 7 Rank the three funds given below with the help of Sharpe, Treynor and Jensen's performance Index (Based on predictive ability of portfolio manager).

growth rate for the first quarter of year 2017-18.

Growth Fund	Return	Beta	σ
	(%)		
A	17	1.6	13
В	15	1.8	11

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C	11	0.80	10
Market	15	1	15
R _f	7		

Is there any difference in the ranking according to these measures? If so, why?

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Q 8 a) Consider a portfolio of five securities with the following characteristics.

Security	Weights	β_{i}	Residual (%) Variance $\sigma^2_{\epsilon i}$
A	0.10	1.35	5
В	0.20	1.05	9
С	0.15	0.80	4
D	0.30	1.5	12
E	0.25	1.12	8

Assuming the variance of return on market index to be 20%, calculate the portfolio risk using Sharpe single index model.

b) Determine Macaulay's duration of a bond that has a face value of Rs 1000 with a 10% annual coupon rate and a three year term to maturity. The bond's yield to maturity is 12%.

Manika wants to invest in the one of the three companies given below. She believes that no company should be considered for investment unless it has strong fundamentals and good current financial position. You are asked to examine the following data and suggest her best company out of X, Y and Z for making investment.

Ratio	X		y		Z	
	2015	2016	2015	2016	2015	201
						6
Current ratio	2.1	2.5	2	2.26	2.71	2.53
Acid test ratio	1.27	1.42	1.38	1.50	1.90	1.76
Composition of current						
assets (%)						
• Cash	13	13	34	29	34	34
 Receivable 	38	36	24	26	33	32
Inventory	45	47	33	35	31	31
Other current Assets	4	4	9	10	2	3
Net sales to inventory	3.9	3.77	4.45	4.23	5.65	5.25
Net sales to working capital	3.29	2.97	3.10	2.81	2.87	2.85
