Hall Tick	et No:							Course	e Code: 16	SMBA114
MAI	DANAPALLE I	NSTITUI	E OF	TECH	INOLO	OGY 8	& SCIE	NCE. M	IADAN <i>I</i>	ΑΡΔΙΙΕ
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MBA	II Year I Semeste	er (R16) Su	pplen	nentary	/ End S	emest	ter Exam	inations	s – OCTOI	BER 2021
		C)PER/	OITA	NS RES	SEAR	CH			
Time	e: 3Hrs									arks: 50
	Attempt all the In Q.no 1 to 5 ansv									
Q.1(A)	Solve the L.P.P	. graphicall	y: <i>Min</i>	Z = 3x	$+5x_{2}$					8 M
	Subject to $x_1 \le \epsilon$	$4; 2x_2 \le 6;$	$3x_1 + 2$	$x_2 \leq 18$	$x_1 + x_2$	≤ 9 ; x_1	$x_2 \ge 0$			
	·	2	,		OR		· <u>-</u>			
Q.1(B)	Explain the sco	pe of Opera	ations I	Researc	h in det	ail.				8 M
Q.2(A)	Find the optime	ım transpo	rtation	cost fo	r the fo	llowin	g Transpo	ortation _l	problem:	8 M
)1 D2		D4	Availab	ility		
		P1		.9 30	_	12	7			
		P2		0 30		20	10			
		P3		0 10		20	18			
		Requirem	ent :	5 8	7	15	35			
0.0(=)					DR					
Q.2(B)	Explain the Hun	igarian met	hod of	solving	g Assign	ment p	oroblem.			8 M
Q.3(A)	An operator sl									
	required to per									
	in which the job		e proc	essed ir	n order	to mir	nimize the	e total tir	me require	ed
	to turn out all th			2		_		7 6		1
	Job Time for turn	1	2	3	4	5	6	7 8		-
	Time for turn		5	7	9 4	6 3	9	7 5		
	Time for times	dung 0	- 0		DR		9	3 0	, 11	J
Q.3(B)	Explain the terr	ns il Two-	Darson			nos ii) Pay off	matriy ii	ii) Minima	. O N /I
Q.3(b)	Maxmin princip				_			IIIatiix II	ii) iviiiiiiiia	ıx- 8 M
Q.4(A)	A firm is conside	ering replac	ement	of a m	achine.	whose	cost pric	re is Rs 1	2 200 an	d 8 M
. ,	the scrap value						•			
	follows:			·						
	Year	1	2	3	4	5	6	7	8	
	Dunning a	act 200	EOO		1200	1 1000	1 1 2 5 6 6	1 2200	1000	

Running cost | 200 | 500 | 800 | 1200 | 1800 | 2500 | 3200 | 4000

What should the machine be replaced?

OR

Define Simulation. Explain the types of Simulation in detail. Q.4(B)

8 M

Q.5(A) Explain i) Critical Path Method and ii) PERT

8 M

OR

- Q.5(B) In a railway marshalling yard, goods trains arrive at a rate of 30 trains per day. 8 M Assuming that the inter-arrival time follows an exponential distribution and the service time also exponential with an average 36 minutes. Calculate
 - i) the mean queue size and
 - ii) the probability that the queue size exceeds 10.

Q.6

CASE STUDY

10 M

The following table gives the activities of construction project and duration:

Activity	1-2	2-3	2-4	3-5	3-6	4-6	4-7	5-8	6-8	7-8
Duration (days)	2	3	5	4	1	6	2	8	7	4

Draw the network for the project. Find the critical path and project duration.

END

Hall Ticket No:						Course Code: 16MBA401

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

(UGC-AUTONOMOUS)

MBA II Year I Semester (R16) Supplementary End Semester Examinations OCTOBER 2021
SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT

	SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT							
Time:	TVICA IVIC	rks: 50						
	Attempt all the questions. All parts of the question must be answered in one place only. In Q.no 1 to 5 answer either Part A or Part B only. Q.no 6 which is a case study is compulsory	•						
Q.1(A)	•							
	OR							
Q.1(B)	Discuss in detail about the stock exchanges in India.							
Q.2(A)	Write an essay on fundamental analysis of stocks in India.							
	OR							
Q.2(B)	What is technical analysis? Explain various technical charts in technical analysis?	8M						
Q.3(A)	What is Primary and Secondary market? Describe the Market participants of the secondary market. OR	8M						
Q.3(B)	A Bond par value is Rs 1000. Interest rate is 10 per cent, and now it is currently sold for 900 and matures in 8 years with a maturity value of Rs 1100. Calculate Yield to Maturity (YTM) by using trial and error method							
Q.4(A)	What is meant by portfolio management? Discuss the elements of portfolio management	8M						
	OR							
Q.4(B)	From the following information calculate the expected rate of return of a rportfolio. Risk free rate is 8 % Expected return of market portfolio is 18 %, Standard deviation of an asset is 2.8 %, Market standard deviation is 2.3 % correlation coefficient of portfolio is 0.8 calculate expected rate of return	8M						
Q.5(A)	Explain the basic assumptions of Markowitz efficient frontier theory.	8M						
	OR							
Q.5(B)	From the following information calculate Treynor's Measure, Jensen's Measure and Sharpe's measure of portfolio performance when average return on portfolio is 19 $\%$, Market return 18 $\%$, Risk free rate of return is 12 $\%$, Standard deviation = 14 $\%$, Beta of Portfolio is 0.95 and Beta of Market is 1	8M						
Q.6	Case Study	10M						
	From the following information of security Alpha and Gama you are require to calculate							
	Individual return of each security Individual Risk of each security							
	 Individual Risk of each security Covariance of Alpha and Gama 							
	4. Correlation of Alpha and Gama							
	5. Portfolio return with a proportionate of 60 % of Alpha and 40 % Gama6. Portfolio Risk							

Year	Alpha	Gama
2010	18 %	10 %
2011	15 %	20 %
2012	12 %	22 %
2013	18 %	10 %
2014	15 %	15 %

END