Hall Ticke	et No:								C	ourse Code: 14	MBA114
MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE (UGC-AUTONOMOUS)											
MBA II Year I Semester (R14) Supplementary End Semester Examinations-June 2016											
				•		ations: R14					
				(	<b>OPERATION</b>	S RESEA	ARC	Н			
Time: 3Hrs Max Marks: 60 Attempt all the questions. All parts of the question must be answered in one place only.											
In	Q.no	1 to	5 answe	r eithe	er Part A or B o	nly. Q.no (	5 whi	ch is a c	ase stu	idy is compulso	ry.
Q.1(A)	Defi	ne O <sub>l</sub>	peration	s Rese	arch? What are		cation	ns of ope	eration	s Research?	10M
						OR					
Q.1(B)	Minimize $Z = 20X_1 + 10X_2$										
	-	ect to									
	_	!X <sub>2</sub> ≤4 -X <sub>2</sub> ≥3									
		X <sub>2</sub> ≥6									
	$X_1, X_2$	2≥0									
======================================							H-1				
Q.2(A)		_			tion Method in			e initial	basic f	easible	10M
	solu <sup>.</sup>	tion t	o the fo	llowin	g transportatio	n problem	•			Supply	
			$D_1$		$D_2$	$D_3$		$D_4$		Supply	
	$S_1$		19		30	50		10		7	
	$S_2$		70		30	40		60		9	
	$S_3$		40		8	70		20		18	
	Dem	and	5		8	7		14			
						OR					
Q.2(B)	Expla	ain th	ne metho	od of s	olving Assignm	ent proble	m				10M
Q.3(A)	Wha	t is	iob se	quenc	ing problem?	Explain	John:	son's a	lgorith	m for solving	10M
- ( )			-	-	gh 2 machines	•			Ü	· ·	
	•			`		OR					
Q.3(B)	Dete	rmin	e which	of the	following two-	person zei	ro-sui	m game	s area	strictly	(5+5)
α.σ(σ)					Given the optin	•		_		•	M
	strict	tly de	termina	ble ga	mes						
	(i)		Player	В	(ii)			Player	В		
	(1)		B <sub>1</sub>	B <sub>2</sub>	\"''			B <sub>1</sub>	B <sub>2</sub>		
				-2							
	ГA	A <sub>1</sub>	-5	2		rA	A <sub>1</sub>	1	1		

(i)		Player	В
		B <sub>1</sub>	B <sub>2</sub>
Player A	A <sub>1</sub>	-5	2
P	A <sub>2</sub>	-7	-4

Player -3 Q.4(A) A firm is considering replacement of a machine whose cost price is Rs.12200; and the scrap value Rs200. The maintenance costs are found from experience to be as follows:

101101131								
Year	1	2	3	4	5	6	7	8
Maintenance Cost	200	500	800	1200	1800	2500	3200	4000
(Rs.)								

When should the machine be replaced?

OR

Q.4(B) A bakery keeps stock of popular brand. Previous experience indicates the daily demand as given below:-

(5+5) M

Daily demand	0	10	20	30	40	50
Probability	0.01	0.20	0.15	0.50	0.12	0.02

Consider the following sequence of random numbers

48,78,19,51,56,77,15,14,68,8.

Using the above sequence, simulate the demand for the next 10 days

- (i) Find out the stock situation if the owner of the bakery decides to make
- 30 breads every day
- (ii) Estimate the daily average demand for the bread on the basis of simulated data

Q.5(A) Draw the network and determine the critical path for the given data.

10M

Jobs: 1-2 1-3 2-4 3-4 3-5 4-5 4-6 5-6 Duration: 6 5 10 3 4 6 2 9

OR

Q.5(B) What is Queue .Give an example? Explain the basic elements of Queues

10M

Q.6

#### CASE STUDY (COMPULSORY)

10M

A salesman has to visit five cities A, B, C, D and E. The distances (in hundred miles) between the five cities are as follows:

If the salesman starts from city A and has to come back to city A, which route should he select so that the total distance travelled is minimum

		O		
Α	В	С	D	Е
-	7	6	8	4
7	-	8	5	6
6	8	-	9	7
8	5	9	-	8
4	6	7	8	-
	7 6	A B - 7 7 - 6 8 8 8 5	A B C - 7 6 7 - 8 C 6 8 - 8 5 9	A B C D - 7 6 8 7 - 8 5 6 8 - 9 8 5 9 -

Hall Tick	et No:						Cour	se Code: 1	4MBA115	
MAI	MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE (UGC-AUTONOMOUS)									
MBA II Year I Semester (R14) Supplementary End Semester Examinations – June 2016 (Regulations: R14)										
BUSINESS ANALYTICS										
Time: 3Hrs Max Marks: 60										
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 B only. Q.no 6 which is a case study is compulsory.										
Q.1(A)	What is Busi	ness Analytics?	Explai	n the n	ature ar	nd scop	pe of bus	iness analy	tics.	10M
				0	R					
Q.1(B)	What resour	ce consideratio	ns are	import	ant to s	uppor	t Busines	s Analytics	?	10M
Q.2(A)	What is a Hy	pothesis? write	the cl	naracte	ristics o	f Hypo	othesis?			10M
				0	R					
Q.2(B)	OR  For the following frequency distribution draw a histogram using R. Hence calculate the mode.									10M
		Class					Frequer	ncy		
		0-5					2			
		5-10					7			
		10-15					18			
		15-20 20-25					10			
		25-30					5			
Q.3(A)	Explain least demerits.	square method	of tir	ne seri	es analy	sis wit	h respec	tive merits	and	10M
				OI	R					
Q.3(B)	Develop a thr	ee-week movin	g avei	rage for	the giv	en dat	a.			10M
		Week Value	1 18	2 13	3 16	4 11	5 17	6 14		
Q.4(A)	What is risk a	nalysis? Explain	the a	dvanta	ges of m	onte	carlo sim	ulation.		10M
				O	₹					
Q.4(B)	What is the reanalysis?	elationship betv	/een l	ogistic ı	regressi	on and	d Linear o	discriminan	it	10M
Q.5(A)	Discuss theor	etically about d	ecisio	n trees	in busin	ess ar	alytics.			10M
				OF	?					
Q.5(B)	Discuss the steps involved in Sensitivity Analysis.									

An agent for a residential real estate company in a large city would like to be able to predict the monthly rental cost for apartments, based on the size of the apartment, as defined by square footage. A sample of 25 apartments in a particular residential neighborhood was selected, and the information gathered revealed the following:

- i. Calculate:
- a. Construct a scatter plot.
- b. Use the least-squares method to find the regression coefficients b0 and b1.
- c. Interpret the meaning of b0 and b1 in this problem.
- d. Predict the mean monthly rent for an apartment that has 1,000 square feet.
- e. Why would it not be appropriate to use the model to predict the monthly rent for apartments that have 500 square feet?
- f. Your friends Jim and Jennifer are considering signing a lease for an apartment in this residential neighborhood. They are trying to decide between two apartments, one with 1,000 square feet for a monthly rent of \$1,275 and the other with 1,200 square feet for a monthly rent of \$1,425. What would you recommend to them based on (a) through (d)?

Apartment	Monthly	Size	Apartment	Monthly	Size
, , ,	Rent	(SquareFee	·	Rent	(SquareFee
	\$	t)		\$	t)
1	950	850	13	2300	1985
2	1600	1450	14	1800	1369
3	1200	1085	15	1400	1175
4	1500	1232	16	1450	1225
5	950	718	1100	1245	
6	1700	1485	18	1700	1259
7	1650	1136	19	1200	1150
8	935	726	20	1150	896
9	875	700	21	1600	1361
10	1150	956	22	1650	1040
11	1400	1100	23	1200	755
12	1650	1285	24	800	1000
25	1750	1200			

Hall Ticket No:											Course Code: 14MBA116
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MBA II Year I Semester (R14) Supplementary End Semester Examinations – June 2016 (Regulations: R14)

#### **INTERNATIONAL BUSINESS**

Time	Time: 3Hrs Max Marks: 6								
	Attempt all the questions. All parts of the question must be answered in one place only								
ır	Q.no 1 to 5 answer either Part A or B only. Q.no 6 which is a case study is compulsor	у.							
Q.1(A)	How Globalization and Liberalization have helped growth of International Business in India since last one decade?	10M							
	OR								
Q.1(B)	(B) What is Product Life Cycle? Discuss Product Life Cycle theory of business.								
Q.2(A)	What is foreign exchange? And differentiate between the spot exchange rates and forward exchange rates.	10M							
	OR								
Q.2(B)	Discuss the issues in BOP disequilibrium and measures for rectification.								
Q.3(A)	Write a detailed note on International Strategic Alliances.	10M							
	OR								
Q.3(B)	Discuss about tariff and non tariff barriers.	10M							
Q.4(A)	What are major factors that are to be considered during appraised of expatriate managerial Performance?	10M							
	OR								
Q.4(B)	Define IHRM. How it is different from domestic HRM.	10M							
Q.5(A)	What are Special Economic Zones? Mention some of major benefits of SEZ's.	10M							
	OR								
Q.5(B)	Write a detail note on EXIM policy.	10M							
Q.6	Case Study	10M							

Electrolux is Sweden's largest manufacturer of electrical household appliance and was on the world's pioneers in the marketing of vacuum cleaners. However, not all the products the Electrolux name are controlled by the Swedish firm. Electrolux vacuum cleaner sold and manufacturer in the United States, for example, have not been connected with Swedish firm reentered the U.S. market in 1974 by purchasing National Union Electric, which manufacturers Eureka vacuum cleaners.

Electrolux pursued its early international expansion largely to gain economies of scale through additional sales. The Swedish market was simply too small to absorb fixed costs as much as the home markets for competitive firms from larger countries. When additional sales were not possible by exporting, Electrolux was still able to gain certain scale economies through establishment for foreign production. Research and over the additional sales made possible by foreign operations. Additionally, Electrolux concentrated on standardized production to achieve further scale economies a rationalization of parts.

Until the late 1960, it concentrated primarily on vacuum cleaners and the building of its own facilities in order to effect expansion. Throughout the 1970's through, the firm expanded largely by acquiring existing firms whose product line differed from those of Electrolux. The compelling forces were to add appliances lines to complement those developed internally. Its recent profits (\$220 million in 1983) have enabled Electrolux to go an acquisition binge. It acquired two Swedish firms that made home appliances and washing machines. The management felt that it could use its existing foreign sales and facilities. Vacuum cleaner producers were acquired in the US and in France; and to gain captive sales for vacuum cleaner. Electrolux acquired commercial cleaning service firms in Sweden and in the US. A French Kitchen equipment producer Arthur Martin was bought, as was a Swiss home appliance firm.

Except the Facit purchase, the above acquisition all involved firms that produced complementary lines that would enable the new parent to gain certain scale economies. However, not all the products of acquired firms were related, and Electrolux sought to sell off unrelated businesses. In 1978 for example, a Swedish firm, Husqvarna's motorcycle line but could not get a good price for the chain saw facility reconciled to being in the chain saw business. Electrolux then acquired chain saw in Canada and Norway, thus becoming one of the world's largest chain saw producers. The above are merely the most significant. Electrolux acquisitions: the firm made appropriately fifty acquisitions in the 1970s.

**Ouestions:** 

- i) What are Electrolux reasons for direct investment?
- ii) How has Electrolux's strategy changed over time? How has this affected its direct investment activities?

Hall Ticket No: Course Code: 14MB
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(UGC-AUTONOMOUS)

MBA II Year I Semester (R14) Supplementary End Semester Examinations – June 2016 (Regulations: R14)

### SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT

Tim	e: 3Hrs Max Marks	: 60						
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 B only. Q.no 6 which is a case study is compulsory.								
Q.1(A)	What is investment? Distinguish between Marketable investments and non marketable investments?	10M						
	OR							
Q.1(B)	What are differences between Primary markets and Secondary markets?	10M						
Q.2(A)	What is technical analysis? What is the process involved in it?	10M						
	OR							
Q.2(B)	What do you mean by company analysis? Explain the features of company analysis?							
Q.3(A)	Kalyan is considering the purchase of a bond currently selling at Rs.980. The bond has four years to maturity, face of Rs.1000 and 9% coupon rate. The next annual interest payment is due after 1 year from today. The required rate of return is 11%. i) Calculate the intrinsic value (present value) of the bond. i) Should Kalyan buy the bond? ii) Calculate the yield to maturity of the bond.  OR	10M						
Q.3(B)	The company A's next year dividend per share is expected to be Rs 3.50. The dividend in subsequent years is expected to grow at a rate of 10 percent per year. If the required rate of return is 15 percent per year. What should be its price? The prevailing market price is Rs 75.	10M						
Q.4(A)	What is portfolio management? Explain the models of portfolio management.	10M						
	OR							
Q.4(B)	What is bench mark portfolio? Explain Capital Market Theory.	10M						
Q.5(A)	What is portfolio revision? Explain the different types of portfolio revision plans.  OR	10M						
Q.5(B)	Explain the different types of portfolio performance evaluation.	10M						
Q.6	Case Study  Pearl and Diamond are the two mutual funds. Pearl has a mean success of 0 .15 and Diamond has 0.22 .The diamond has double the beta of Pearl funds 1.5. The standard deviation of Pearl and Diamond funds are 15 % and 21.43 % .The mean market index is 12 % and its standard deviation is 7.The risk free rate of return is 8 %.  (i) Compute the Jenson index for each fund.  (ii) Compute the Treynor and Sharpe indices for the funds.  Interpret the results.	10M						



Hall Ticket No:											Course Code: 14MBA427
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MBA II Year I Semester (R14) Supplementary End Semester Examinations – June 2016 (Regulations: R14)

#### **RETAIL MANAGEMENT STRATEGY**

Time	e: 3Hrs Max Marks	: 60
	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 B only. Q.no 6 which is a case study is compulsory.	
Q.1(A)	Describe briefly the benefits of retailing.	10M
	OR	
Q.1(B)	Explain the evolution of retail in India.	10M
Q.2(A)	What is consumer buying process? Does this process vary for convenience products and for high priced, high involvements products?	10M
	OR	
Q.2(B)	Explain Geographic Analysis	10M
Q.3(A)	How can strategic planning help build a competitive advantage?	10M
	OR	
Q.3(B)	Write a short notes on a) Selecting the Target Markets b )Developing Positioning Strategy	10M
Q.4(A)	Can social networking can be included in the retail communication programmes? Explain	10M
	OR	
Q.4(B)	Explain the significance of evaluating the effectiveness of advertisement.	10M
Q.5(A)	Explain the human resource functions in retailing  OR	10M
Q.5(B)	What is the importance of Store layout in retailing? Briefly explain the types of retail layouts.	10M
Q.6	Case Study	10M
	Big Bazaar – Retail strategy	
	Big Bazaar has strong own brand names in its portfolio across product categories.	
	The hrand includes Pantaloon John Miller and Bare Higher percentage of 'own	

Big Bazaar has strong own brand names in its portfolio across product categories. The brand includes Pantaloon, John Miller, and Bare. Higher percentage of 'own brand's efficiency sales improve margins, thus reducing the breakeven level of sales .Big Bazaar has diversified from apparels to household items in its discount stores. This has enabled them to enlarge their basket of offerings. Big Bazaar offers products and service such as a chemist, a photography shop, a bakery, financial

products, automobile accessories, bicycles, and electrical hardware among other items- the range is vast and fulfils practically every need of the consumer under one roof. This is backed by complete automation of the retail outlets. The company's operations are fully integrated and aimed at giving its operating efficiency a boost. In India, especially in cities like Mumbai, Bengaluru, Kolkata and Hyderabad, where th population dense and consists of a big higher middle class, the concept of discount stores is gaining wide acceptance. The company plans to expand rapidly. The key challenges facing the company are fund raising and competition. The company has been allotting shares to promoters at SEBI formula price. It plans to borrow heavily to fund its expansion plans. As a consequence of increased interest payment and depreciation expense, the net profit margins would remain flat. The company is facing limited competition from the organized retailers but strong competition exist from the downtown centers unorganized retailers. Big Bazaar is experiencing competition from the similar kind of retail format. Big bazaar offered discounts in the range of 2-60 percent

In the context of Big bazaar retail marketing strategy, evaluate the scope for organized retailing in India.

Hall Ticket No: Course Code: 14MBA40	Hall Ticket No:	Course C	de: 14MBA40
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(UGC-AUTONOMOUS)

MBA II Year I Semester (R14) Supplementary End Semester Examinations – June 2016 (Regulations: R14)

## INTERNATIONAL FINANCIAL MANAGEMENT

Time	e: 3Hrs Max Mark	s: 60						
	Attempt all the questions. All parts of the question must be answered in one place only	/.						
Ir	Q.no 1 to 5 answer either Part A or B only. Q.no 6 which is a case study is compulsor	ſy.						
Q.1(A)								
	OR							
Q.1(B)	Write short notes on:	10M						
	(i) Bretton Woods system	20						
	(ii) The International Fisher effect							
Q.2(A)	Explain various types of foreign currency options in brief.	10M						
	OR							
Q.2(B)	What are the features of a forward contract? Explain how foreign exchange rates	10M						
	are determined in forward market with example?							
Q.3(A)	What is Economic exposure? How can firms manage their Economic exposure?	10M						
	OR							
Q.3(B)	Explain different forms of foreign exchange exposure.	10M						
Q.4(A)	Discuss the mission of IBRD and explain how its operations are performed.	10M						
	OR	10141						
O 4(B)	mulation and the state of the s							
Q.4(B)	Explain centralized cash management system in International Financial	10M						
	Management?							
Q.5(A)	What are various risks associated with cross border investment decisions and how	10M						
	risks are incorporated in it.							
	OR							
Q.5(B)	How can foreign projects are financed? Explain in brief.	10M						
Q.6	Case Study	10M						

Probability	Security A	Security B
0.5	4	0
0.4	2	3
- 1		

Returns on securities A and B are given below.

Select the security on the basis of return and risk.



Hall Ticket No:											Course Code: 14MBA432
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(UGC-AUTONOMOUS)

MBA II Year I Semester (R14) Supplementary End Semester Examinations – June 2016 (Regulations: R14)

## LOGISTICS AND SUPPLY CHAIN MANAGEMENT

	LOGISTICS AND SUPPLY CHAIN WANAGEWENT	
Time: 3H	TAIGY IAIG	
	ttempt all the questions. All parts of the question must be answered in one place only. <b>Q.no 1 to 5 answer either Part A or B only. Q.no 6 which is a case study is compulsory</b>	
Q.1(A)	What is meant by Physical Distribution? What are the components of physical distribution?	10M
	OR	
Q.1(B)	Explain advantages and disadvantages of various Modes of Transportation of Goods in India.	10M
Q.2(A)	Discuss various commercial aspects in Distribution Management.	10M
	OR	
Q.2(B)	What do you Understand by Distribution Resource Planning (DRP)? How is it having an edge over Distribution Requirement Planning?	10M
Q.3(A)	Define supply chain management? Explain the role of manager in Supply Chain.	10M
	OR	
Q.3(B)	Elucidate Supply Chain Performance Drivers. Explain key enablers for improvement of Supply chain.	10M
Q.4(A)	Elaborate on evolution of Marketing Channels? Explain Briefly Production, sales, Marketing and Relationship Era.	10M
	OR	
Q.4(B)	Who are Channel Intermediaries? Elucidate various levels of Channel Intermediaries.	10M
Q.5(A)	What is bullwhip effect in supply chain and how it is measured? Describe the major causes of bullwhip effect in supply chain.	10M
O E/D)	OR What is Supply Chain Balatian abia 2 Diagram at the state of the st	
Q.5(B)	What is Supply Chain Relationship? Discuss various strategies for Conflict Resolution.	10M
Q.6	Nikon Inc.  Nikon Inc. is the world's leader in precision optics, 35mm and digital imaging technology. So it's no surprise that when the company saw the next big trend in photographic technology digital cameras they were ready to deliver with some of the most advanced product designs in the marketplace. But to ensure that retailers could meet the demand of tech-hungry consumers and professional photographers, Nikon, with the help of UPS Supply Chain Solutions, reengineered its distribution network to keep them well supplied. To support the launch of its new digital	10M

cameras, Nikon knew that customer service capabilities needed to be completely up to speed from the start and that distributors and retailers would require up-to-the-



handled new product distribution in-house, this time Nikon realized that burdening its existing infrastructure with a new, demanding, high-profile product line could impact customer service performance adversely. For Nikon, that meant applying its well-known talent for innovation to creating an entirely new distribution strategy and taking the rare step of outsourcing distribution of an entire consumer electronics product line. With UPS Supply Chain Solutions on board, Nikon was able to quickly execute a synchronized supply chain strategy that moves product to retail stores throughout the United States, Latin America and the Caribbean and allows Nikon to stay focused on the business of developing and marketing precision optics. Starting at Nikon's manufacturing centers in Korea, Japan and Indonesia, UPS Supply Chain Solutions manages air and ocean freight and related customs brokerage. Nikon's freight is directed to Louisville, Kentucky, which not only serves as the allpoints connection for UPS's global operations, but also is home to the UPS Supply Chain Solutions Logistics Center main campus. Here, merchandise can either be "kitted" with accessories such as batteries and chargers, or repackaged to in-store display specifications. Finally, the packages are distributed to literally thousands of retailers across the U.S., or shipped for export to Latin American or Caribbean retail outlets and distributors, using any of UPS's worldwide transportation services to provide the final delivery. With the UPS Supply Chain Solutions system in place, the process calibrates the movement of goods and information by providing SKU-level visibility within complex distribution and IT systems. UPS also provides Nikon advance shipment notifications throughout the U.S., Caribbean and Latin American markets.

Questions:

i) Critically examine the Nikon distribution system with SWOT Analysis?

