ADAG GAMENTE

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	Fourth Semester MBA Degree Examination, November 2020																
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Tim	ne: 3	hrs										,			Max	x. Mark	s:100
							Note	: A	nswe	r any I	FIVE	full qu	estions	•			
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ng	c.	A 5	vea	ar bo	ond.	with	ı a v	ield	of 119	% (cont	inuou	isly com	pounde	1) pay	s an 89		n at the
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			11%														
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4	a.	7					ult S	· · · · //			.45	_ C4:					3 Marks)
	b.	Dis	cuss	the	var	lous	iacto	ors a	obout	ig the p	nces	of option	II. ISVS for	whic	h one c		7 Marks) involves
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5	a.	De	fine	Valı	ue o	f Ri	sk (V	aR).								(0	3 Marks)
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Return on two shares have a bivariate normal N = 10 days, X = 99% (i.e, confident level = 2.33)

c. Write a note on any two commodity exchange in India.

(07 Marks) (10 Marks)

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6 a. Define "Variation Margin".

(03 Marks)

b. Explain the structure of credit default swap. What are its advantages?

(07 Marks)

c. The following information is available about a share and a call option on the same.

Spot price = Rs.150

Exercise price = Rs.140

Time to expiration = 6 months

Standard deviation of stock return = 0.49%

Risk free rate of return (continuous compound) = 10% p.a.

Compute the value of the call option using Black and Schole's model.

(10 Marks)

7 a. Define "Asset Back Securities"

(03 Marks)

b. Discuss features of financial derivatives.

(07 Marks)

c. ICICI Bank and Axis Bank wish to borrow a certain sum of money and have been offered the following rates:

Company		Fixed rate	Floating rate
ICICI Bank	1	11%	LIBOR + 0.4%
Axis Bank		12.6%	LIBOR + 1%

ICICI Bank require floating rate loan and Axis Bank require fixed rate. Design a swap that is accepted. Swap banker charges 0.1%. (10 Marks)

8 On January 1, 2020 an investor has a portfolio of 5 shares as gives here:

Security	Price	No. of Shares	Beta value
A	59.50	5,000	1.05
В	81.85	8,000	0.35
/ C	101.10	10,000	0.80
D	125.15	15,000	0.85
₽ E	140.50	1,500	0.75

The required rate of return to the investor is 12.5% per annum.

You are required to:

a. Calculate the Beta of his portfolio

b. Calculate the theoretical value of the Nifty Futures for February.

c. If the current value is at 1005 and Nifty Futures have a minimum trade lot requirement of 200 units. Obtain the number of contracts of Nifty he needs to sell in order to get a full hedge until February for his portfolio. Assume that the futures are trading at their fair value.

d. Calculate the number of futures contracts the investor should trade, if he desired to reduce the Beta of his portfolio to 0.7. (20 Marks)