

MID-TERM EXAMINATION

INTERNATIONAL COLLEGE BEIJING, CAU

APRIL 2017

Score

COURSE TITLE	Commodity Futures Markets		LEVEL	senior	
INSTRUCTOR(S)	Rodney Beard	TOOLS ALLOWED	Calculator, pencil, pen, One page notes, eraser	DURATION	2.0 hours

Student No.	_____	Name	_____	Section	_____
			<i>in Chinese</i>	<i>in Pinyin</i>	

Total Points: 20 (note for admin this will be converted to 100 for grade entry)

For instructor: Please leave answer spaces on exam paper, there is no separate answer booklet.

Commodity Futures Markets Practice Exam

Instructions

The Exam is worth 20% There are three (3) questions with multiple parts.. Answer the questions in the spaces provided on the question sheets. If you run out of room for an answer, continue on the back of the page. Show working for all answers.

Questions

1. Consider the following situation involving options on an underlying commodity, the strike price is \$10, maturity 6 months and current spot price \$5. The risk free interest rate is 4%, then
 - (a) Is it cheaper to purchase a put option or a call option? (4 points)
 - (b) In addition the spot price has a volatility of 1 and the convenience yield is 0.1 . What is the value of European call option on the underlying asset? (4 points)

Answer:

2. What are the Greeks? Give details in your answer.

(5 points)

Answer:

3. What is the difference between contango and backwardation? Explain using diagrams.

(7 points)

Answer:

NORMAL CUMULATIVE DISTRIBUTION FUNCTION

[illegible]