Name: Enrolment No:



UNIVERSITY WITH A PURPOSE

UNIVERSITY OF PETROLEUM & ENERGY STUDIES Online End Semester Examination, December 2020

Course: Energy Trading Markets and Risk Management

Program: MA Energy Economics Course Code: OGET 8006 Semester: III Time: 3 Hours Max. Marks: 100

SECTION A

- 1. Each Question will carry 5 Marks
- 2. Instruction: Explain each briefly in not more than 5 lines

S.No	Question	COs
Q1	Rho	CO 2
Q2	Black scholes model	CO 2
Q3	A call option at a strike of Rs.176 is selling at a premium of Rs.18. At price will it be at break even for the buyer of the option?	CO 4
Q4	Stress Testing	CO 3
Q5	Pit Trading	CO 2
Q6	Vega	CO 2

Section B

1. Each question will carry 10 marks

2. Instruction: Write short / brief notes

Q7	Explain the processes by commodity trading firms as how they manage the following categories of risk: a.) flat price risk b.) basis risk c.) Credit risk d.) Liquidity risk e.) Freight risk	CO 1
Q8	Explain the concept of plain vanilla swaps with the help of an example.	CO 2
Q9	Explain the option strategy which should be adopted If a trader buys a call and buys a put at the different strike price, He have limited loss and unlimited profit potential. He has less risk appetite than other traders.	CO 4
Q10	Value at risk (VAR) is a probabilistic measure of the range of values a firm's portfolio could lose due to market volatility. What are the various methods of calculating VAR for a simple portfolio?	CO 3

Q11	Define technical analysis. Evaluate the ways in which, it is useful in studying the oil and gas markets?								
	Section C								
1. Eac	ch Question carries 20 N	Marks.							
2. Inst	truction: Write long an	swer.							
Q12									
	Calculate the value of a period of 4 years with			Cor					
		R	1.05	CO 4					
		U	1.08						
		D	0.93						
		Q	55.53%						
		1-q	44.47%						