

Name:	 UPES UNIVERSITY WITH A PURPOSE
Enrolment No:	

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

Program: MBA (Oil & Gas Management) Subject (Course): Fundamentals of Petroleum Exploration Course Code : OGOG 7002 No. of page/s: 3	Semester – I Max. Marks: 100 Duration: 03 hrs.
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SECTION A

1. Each Question will carry 5 Marks
2. Attempt all Questions

		Mar ks	CO
Q 1	Complete the Abbreviations and write one line description i. OALP ii. PNGRB iii. NDR iv. API v. FIPI	5	CO1
Q2	Fill in the blanks 1. NELP was introduced in the yearand there has beenrounds of NELP Bidding in India 2. CBM stands for.....which is a type of.....Petroleum resource.	5	CO2
Q3	Name the Category -1 sedimentary basin in India	5	CO1
Q4	The average gravity value on the earth surface is.....which is different by.....mill gals compared to Polar value	5	CO3
Q5	The only direct method to discover hydrocarbon accumulation in the subsurface is by.....	5	CO2
Q6	Gravity anomalies used in Petroleum exploration are caused by.....	5	CO1

SECTION B

1. Each question will carry 10 marks
2. Instruction: Write short / brief notes

Q7	a. Define the petroleum system elements and types of reservoirs for hydrocarbon accumulations. b. What are rig types used in offshore drilling?	10	CO2
Q8	Describe the geophysical methods in hydrocarbon exploration. What is Time Lapse Seismic?.	10	CO4
Q9	a. Define the various petroleum licenses types. What are Cost oil & Profit oil terms used in PSC?. b. Define Farm in/Farm out process.	10	CO2
Q10	Define Petroleum Reserves and Resources. Define 1P, 2P and 3P classification of resources used by SPE.	10	CO2
Q11	Define Geologic, Economic risk (Chance of Success) in exploration prospects. What are the five chance components generally used by exploration teams.	10	CO3

SECTION-C

1. Question carries 20 Marks.

2. Instruction: Describe and Complete the Table

Q12	<p>a. Explain the important economic indicators used by oil companies in evaluation the petroleum opportunities.</p> <p>b. Explain the concept of Discounting to calculate the present value of future money. Complete the following discounted cash flow table. Calculate the cumulative cash flow and profitability indicator such NPV.</p>					20	CO5	
	Year	Net Cash (\$MM)	Cumulative Cash Flow (\$MM)	Discounted Cash Flow at....rate				
				5%	10%			20%
	1995	-200	-200	-200	-200			-200
	1996	-80	-280	-267	-254			-242
	1997	35						
	1998	100						
	1999	130						
	2000	150						
	2001	160						
	2002	140						
	2003	110						
	2004	80						
	2005	50						
	Totals	675						
	NPV				
	P/I Ratio							