N	ame:	
т.	am.	

Enrolment No:



UNIVERSITY OF PETROLEUM & ENERGY STUDIES

End Semester Examination – Dec 2023

Program: MBA Oil & GAS Semester: I

Course: Fundamentals of Petroleum Exploration Max. Marks: 100

Course Code: OGOG 7009 Duration: 3 Hours

SECTION- A

Each Question will carry 2 Marks

S.No.	Question	
Q.1	Expand the full form of the followings with one line description. 1. OALP 2. BPRL	CO1
Q.2	Fill in the blanks 1. The world first oil well was drilled inyear and the first oil well in India was drilled inyear in the state of	CO1
Q.3	Write the chemical formula of Paraffins.	CO1
Q.4	Draw the symbol for each of the following rock type, 1. Siltstone 2. Gypsum-anhydrite	CO1
Q.5	Draw the well symbol for each of the following, 1. Injection well 2. Dry wellwith oil shows	CO1
Q.6	Define Play based exploration.	CO1
Q.7	Name the upstream hydrocarbon regulator for the following countries, 1. Brazil 2. Columbia	CO1

Q.8	In which country are the following Oil & Gas fields located?	CO1
(1. Ghawar	
	2. South Kadi	
Q.9	Deep water areas are characterized by water depth more thanmts	CO1
Q.10	Define Unconventional Petroleum Resources	CO1

SECTION- B

Each Question will carry 5 Marks

Q.1	Describe the Geological Time Scale and assign the ages to following geological Eras, 1. Paleozoic	CO2
	2. Cenozoic	
Q.2	Describe Catergory – I sedimentary basins and give examples of 3 bsains in	CO2
	India.	
Q.3	What is farm in –farm out process in acquisition of mineral rights?	CO2
Q.4	Describe crude oil classification types and API gravity. Give the examples of	CO2
	light and heavy crude oil from Indian fileds.	

SECTION- C

Each Question will carry 10 Marks

Q.1	Describe the geoscientific methods (Geophysical, geological and geochemical) hydrocarbon exploration. What is the most preferred method for mapping subsurface salt related play?	СОЗ
Q.2	Define Joint operating agreements (JOA) in hydrocarbons contracts. What are the key elements to be considered in framing such agreements	CO3
Q.3	Define Concessions and Contracts in Petroleum exploration. Also, describe NELP, HELP and DFS licensing policies.	СОЗ

SECTION- D

Each Question will carry 15 Marks

	Year	· · · /	Cumulative	Discount	ted Cash Fl	ow at rate	
			Cash Flow (\$MM)	5%	10%	20%	
	1995	-400	-400	-400	-400	-400	
	1996	-60	-460	-438	-418	-383	
) .1	1997	35					CO4
Į. I	1998	100					CO4
	1999	130					
	2000	150					
	2001	160					
	2002	140					
	2003	110					
	2004	80					
	2005	50					
	Totals	495					
	NPV	.•					
	P/I Ra	tio					
	Select	one of the Indian	or global petroleum	producing	g basin and	l analyze in	
	SOLOGE						