CONFIDENTIAL



Name of Eveningtion								
Name of Examination (Please tick, symbol is given)		MID		END	✓	SUPPLE		
Name of the College (Please tick, symbol is given)	:	COES	✓	CMES		COLS		
Program/Course	:	B. Tech(Geo Science Engineering)						
Semester	:	Semester 8 , Ac. year 2016-17						
Name of the Subject	:	Resource Economics and Risk Mgmt. in Exploration						
Subject Code	:	PEEO403						
Name of Question Paper Setter	:	Dr. S.K.Nanda						
Employee Code	:	40000461						
Mobile & Extension	:	9760372420						
Note: Please mention additional Stationery to be provided, during examination such as								
Table/Graph Sheet etc. else mention "NOT APPLICABLE":								
Graph Sheet								
	FOR SRE DEPARTMENT							
	1	OK 5K	L DEPAR	IMENI				
Date of Examination			:					
Time of Examination			:					
No. of Copies (for Print)			:					

Note: - Pl. start your question paper from next page

Roll No: -----





End Semester Examination, April, 2017

Program/course: B. Tech(Geo Science Engineering)

Semester - : Semester 8

Subject: Resource Economics and Risk Mgmt. in Exploration Max. Marks : 100
Code : PEEO403 Duration : 3 Hrs

No. of page/s:2(Two)

THIS PAPER CONTAINS 3 (THREE) SECTIONS, ALL THE SECTIONS ARE COMPULSARY ASSUME ANY MISSING DATA

SECTION A (20 Marks)

There are Five (05) questions of 04(Four) marks each all the questions are compulsory Limit your answer to maximum of 60 words

Question-1

Indicate suitable approach for oil & gas field Development.

Question-2

What are the basic features and issues related to Technological Schemes?

Ouestion -3

Enlist minimum of 10(ten) steps of initial field development plans that requires critical decisions.

Ouestion-4

Discuss the characteristic features of Final development plan.

Ouestion-5

What are the basic uncertainty factors of the Hydrocarbon Fields?

Section-B(40 Marks)

There are Four (04) questions of 10 (Ten) marks each, all the questions are compulsory Limit your answer to maximum of 200 words

Question-1

Discuss the techno-economics of a well release proposal.

Question-2

What do you understand by Decision Making Environment? Also a judicious approach for decision making in oil industry may also be described.

Question-3

Enlist the methods that are available to help decision- makers to evaluate the uncertainty and reduce the risk.

Question-4

Discuss the role of decision tree in oil industry together with its Basic Features.

Section -C

There are Two questions of 20 (Twenty) marks each, All the questions are compulsary.

Limit your answer to maximum of 500 words.

Question-1

Discuss the various Elements of Hydrocarbon Resource Management and critically analyze the role of economic principles.

Question-2

Discuss the Historical Prospective, Present and Futuristic Scenario of Oil industry in India with special reference to economic growth.

OR

Describe the salient features of Custom Designed Development Plan.

Roll No:	
-----------------	--





End Semester Examination, April, 2017

Program/course: B. Tech(Geo Science Engineering) Semester – : Semester 8

Subject: Resource Economics and Risk Mgmt. in Exploration Max. Marks : 100 Code: PEEO403 **Duration** : 3 Hrs

No. of page/s:Two

THIS PAPER CONTAINS 3 (THREE) SECTIONS, ALL THE SECTIONS ARE COMPULSARY ASSUME ANY MISSING DATA

SECTION A (20 Marks)

There are Five (05) questions of 04(Four) marks each all the questions are compulsory Limit your answer to maximum of 60 words

Question-1

Enlist objectives of decline curve analysis in economic decision process.

Question-2

Differentiate between the two variables used to describe decline analysis of hydrocarbons and link the same with risk analysis.

Question -3

Enlist minimum of 4(four) Factors that need not to be considered separately in decision making process.

Ouestion-4

Discuss the conditions of applicability of decline curve analysis.

Question-5

What is the basic decline relationship and relate the same with resource Management..

Section-B(40 Marks)

There are Four (04) questions of 10 (Ten) marks each, all the questions are compulsory

Limit your answer to maximum of 200 words

Ouestion-1

"The oil industries / organization <u>defines decision making</u> as an essential process that <u>culminates in</u> an allocation of resources to affect some chosen change. Such decisions are very important from their investment point of view." Make the suitable comments

Question-2

In context with decision tree analysis, define the following terminologies:

- b) Out-comes c)
- a) Events

Nodes

Question-3

Outline the salient features of Decisions Making in the Oil and Gas Industry with special reference to integrated approach.

Question-4

What are essential Elements of Field Planning? Also discuss the Life Cycle of an Oil & Gas Field, especially the economic aspects of various stages.

Section -C

There are Two questions of 20 (Twenty) marks each, All the questions are compulsary.

Limit your answer to maximum of 500 words.

Question-1

Discuss the elements of Virtual Field Development Plans giving the following aspects:

- (a) Problem Identification
- (b) Geological aspects
- (c) Reservoir intricacies
- (d) Performance Monitoring
- (e) Economic indices.

Question-2

Discuss the decision making process in Joint Venture approach in Oil industry. Also describe its impact in economic growth.

OR

- A) Define Decision Cycle. What is its duration and activities?
- B) Discuss RISK Analysis and Uncertainty in resource management.