Roll No.					Total No. of Pages: 02

Total No. of Questions: 09

B.Tech. (Petroleum Refinery Engineering) (2013 Batch EL-II)

(Sem.-8)

PETROLEUM ECONOMICS

Subject Code: BTPC-803(D)
Paper ID: [74325]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Answer briefly:

- a) Does crude oil prices affect natural gas prices?
- b) Define Reserve auditing.
- c) Explain NPV and how it is calculated.
- d) What are the main OPEC countries?
- e) What is information needed for economic evaluation of an E&P project?
- f) Mention the steps to determine the present value of an annuity due.
- g) Explain Time Value of Money.
- h) What is real option theory?
- i) What is the difference between depreciation and amortization?
- i) What is NELP?

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SECTION-B

- Q2. Explain the crude oil pricing mechanism.
- Q3. Describe the standard practices for reporting reserves.
- Q4. Express your assessment on E&P activities of any National Oil company.
- Q5. If an oil company expects a cash flow of \$800,000 by the end of 10 years, and 10% is the current interest rate on money, calculate the N.P.V. of this venture.
- Q6. Explain the concept of Preference Theory with example.

SECTION-C

- Q7. Explain Geopolitics of oil. Describe the current geopolitical situations with respect to India.
- Q8. Calculate the payout period for the two alternatives of capital expenditures involving an investment of \$2 million each for a sulfur removal plant, as given below. The life of project 1 and project 2 is 6 and 10 years, respectively.

Year	70	Cash Flow (S)		
1 ear		Project 1	Project 2	
0		2,000,000	2,000,000	
1	6	1,500,000	200,000	
2		500,000	300,000	
3	.4.	400,000	400,000	
4	MANIE	350,000	400,000	
5	8	250,000	400,000	
6		200,000	400,000	
7		100,000	400,000	
8		_	400,000	
9		_	400,000	
10		_	400,000	

Q9. Describe the role of OPEC and Non-OPEC countries in global oil scenario.