

Code No: 58594**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech IV Year II Semester Examinations, April - 2018****PETROLEUM INDUSTRY MANAGEMENT, STRATEGY AND FINANCE****(Petroleum Engineering)****Time: 3 Hours****Max. Marks: 75****Answer any Five Questions
All Questions Carry Equal Marks**

- 1.a) Explain the vital role played by oil and gas products in the development of global economy.
- b) Discuss the objectives and role of Organization of the Petroleum Exporting Countries (OPEC) in regulating the oil & gas industries.
- c) Write about the activities involved in the upstream and midstream components of an oil and gas industry. [5+4+6]
- 2.a) Describe the formation of crude oil and gas deposits in "black shale" source rock.
- b) Explain the terms of agreement included in the Neutral Zone Concessions.
- c) Discuss the salient features of two basic categories of oil reserves. [6+5+4]
- 3.a) Discuss the evaluation of an upstream development project based on strategic, organizational and financial determinations.
- b) Explain the various stages involved in the life cycle of an oil field.
- c) Write short notes about the role of unitization in the maximization of ultimate oil recovery. [6+6+3]
- 4.a) Describe the following terms in oil economics: operating profitability, lease operating expense and break-even production level.
- b) Explain the enhanced oil recovery techniques and investment required to increase the percentage of oil-in-place recovery. [7+8]
- 5.a) Discuss the following categories of asset in managerial balance sheet: Net working capital, Net fixed assets and Invested capital.
- b) Explain the method of capital sourcing for the oil and gas industry by means of: Public equity and Private equity. [9+6]
- 6.a) Write notes about variety of crude oils serve as benchmarks (oil markers), for trading and pricing.
- b) Describe the methodology followed for the sale of crude oil by spot transactions and contract arrangements. [5+10]
- 7.a) What are petrochemicals? Give examples.
- b) Define the terms: commodity and specialty chemicals. Mention the factors influencing the market of such chemicals.
- c) Describe the elements affecting the development and growth of petrochemical industry in future. [4+5+6]

- 8.a) Describe the impact of new entrants and evolving competitive environment in the development of global oil and gas industry.
- b) Explain the various factors driving the industry's failure to attract, develop, and retain new talent towards petroleum sector. [7+8]

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