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## UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2017

Program: B.Tech (CSE-OGI)

Subject (Course): Fundamental of Oil and Gas Business

Course Code: BBDO102

No. of page/s: 2

Semester – III

Max. Marks : 100

Duration : 3 Hrs

Attempt all the sections and all questions are mandatory in each section.

### Section A

1. Attempt all the question each will carry 2 marks. 20 Marks
  - a. What is the general formula of Aromatics compound?
  - b. What is the main transportation means for Oil and Gas transfer?
  - c. What is the first step in the midstream process?
  - d. What act as both a source rock of natural gas and as a reservoir rock?
  - e. Which segment of petroleum industry is the most widely visible to the public?
  - f. Which sector provides an integral link between the upstream and downstream sectors?
  - g. What is the formula of Dienes and Alkynes?
  - h. Under which condition oil and gas were formed by the decay of organic material?
  - i. Offshore floating storage platform is called \_\_\_\_\_.
  - j. Storage of crude oil on sea bed is called \_\_\_\_\_.

### Section B

2. Explain the conversion process of one petroleum fraction into another fraction. 8 Marks
3. Write a short note on midstream transportation. 8 Marks
4. What is the role of petroleum geology in the occurrence and formation of crude oil? 8 Marks
5. Explain the Oil well system with the help diagram. 8 Marks
6. Write a short note on exploratory drilling and production well. 8 Marks

### Section C

7. Explain about the midstream gas sector, LNG processing and Floating LNG unit. 5+5+10 Marks

Or

8. Explain the role of petroleum geology in formation of crude oil. 20 Marks
9. Write a short note on any four topics. 5+5+5+5 Marks
- a. Midstream gathering system
  - b. Sales, Distribution & Marketing of Refined petroleum products
  - c. Role of Information technology in oil and gas business
  - d. Subsea storage
  - e. Refined petroleum products and their properties

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### Section A

1. Attempt all the question each will carry 2 marks. 20 Marks
  - a. What is used for offshore gas transportation?
  - b. Which process converts olefins and aromatics to saturated compounds?
  - c. What act as both a source rock of natural gas and as a reservoir rock?
  - d. Which process is used to converts olefins and aromatics to saturated hydrocarbon compounds?
  - e. What is the key characteristics of midstream business in term of risk and regulation?
  - f. What is the major component of petroleum geology?
  - g. \_\_\_\_\_ is simply a pipe network connecting well heads in the exploration area.
  - h. The general formula of Aromatics compound is \_\_\_\_\_.
  - i. Oil and gas reservoir rocks are porous and permeable. True/False
  - j. Paraffins general formula is  $C_nH_{2n}$ . True/False

### Section B

2. Explain the conversion process of one petroleum fraction into another fraction. 8 Marks
3. Write a short note on Floating LNG unit. 8 Marks
4. Write a short note on refinery value chain. 8 Marks
5. Explain the Oil well system with the help diagram. 8 Marks
6. Distinguish the refined petroleum products on the basis their properties.

8 Marks

### Section C

7. Explain the crude oil refining process with the help of diagram and final refined product. 15+5 Marks
- Or
8. Explain the value chain of Petroleum industry in detail. 20 Marks
9. Write a short note on any four topics. 5+5+5+5 Marks
- a. Aerial survey and seismic survey
  - b. Exploratory drilling
  - c. Role of Information technology in oil and gas business
  - d. Floating storage unit
  - e. Cracking

