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B.Tech.(Petroleum Refinary Engineering) (2013 Batch) (Sem.-8) PETROLEUM EXPLORATION & PRODUCTION OPERATION

Subject Code: BTPC-801 Paper ID: [74320]

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. What is Gamma ray logging?
- b. What is the relationship between oil's API gravity and specific gravity?
- c. Write a short note on stratigraphic trap.
- d. What are category three basins and what are the basins that come under category three basins in India?
- e. How petroleum is migrating?
- f. What is the function of Drilling fluid?
- g. What does a perforating gun do?
- h. What is secondary recovery?
- i. Write short notes on open hole completion.
- j. Write short notes on Christmas tree.



SECTION-B

- 2. Discuss the petroliferous basins of India.
- 3. Write accumulation and migration of hydrocarbon.
- 4. Write notes on Petroleum reservoir fluid properties.
- 5. What is gas lift? Explain with neat sketch.
- 6. Difference between conventional and non-conventional hydrocarbon energy.

SECTION-C

- 7. With the help of neat diagram explain drilling rig and basic operation.
- 8. List out different artificial lift methods and explain any one along with its advantage and disadvantage.
- 9. Write in detail petro physical properties of reservoir rock.

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