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Roll No.	Total No. of Pages : 02
Total No. of Questions : 09	
	eering) (2013 Batch EL-II) (Sem.–8) ELL ENGINEERING
Subject Code	: BTPC-803(C)
Paper ID	: [74324]
Time : 3 Hrs.	Max. Marks:60

INSTRUCTIONS TO CANDIDATES :

- 1. 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 do you mean by primary migration?
- b) Define well kick.
- c) Define Exploratory Well. When is it drilled?
- d) Name the different types of drilling fluid.
- e) What are the functions of cement?
- f) What is PDC bit?
- g) What are the advantages of oil based mud?
- h) What is the use of guide shoe and float shoe?
- i) What do you understand by kick off point?
- j) Explain the different types of well profile.



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SECTION-B

- 2. What do you mean by cap rock? What are its functions? Explain the different types of trapping mechanism.
- 3. Explain Well Planning in detail with the help of a flowsheet.
- 4. What do you mean by drilling fluid? What is the function of drilling fluid? Explain the additives used in drilling fluid.
- 5. Explain the different types of cementing operations.
- 6. Explain the hoisting system of drilling rig.

SECTION-C

- 7. Write notes on :
 - a) Reservoir rock and source rock.
 - b) Types of migration.
- 8. Draw a diagram of a drilling rig and label and explain all its' component.
- 9. What is oil spill? What is its environmental impact? What are the different methods of controlling and minimizing oil spill?

-or