

30 Sample Questions & Solutions
Final Exam (2008)
A.G.T.I (Year 1)
PE-1011(Principle of Petroleum Engineering & Drilling Fluids)

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| 1. | Explain the origin of petroleum. | Non Pg(18) |
| 2. | Describe accumulation and occurrence. | Non Pg(19) |
| 3. | Sketch some typical kinds of folds. | Non Pg(22) |
| 4. | Sketch faults, another kinds of deformation. | Non Pg(23) |
| 5. | Sketch unconformities. | Non Pg(23) |
| 6. | Describe 10 functions of the drilling fluid. | Mud Pg(1) |
| 7. | Explain removal of cuttings of drilling fluid. | Mud Pg(1) |
| 8. | Explain cooling and lubrication of drilling fluid. | Mud Pg(1) |
| 9. | Write down wall building. | Mud Pg(2) |
| 10. | Write down control of subsurface pressure. | Mud Pg(2) |
| 11. | Sketch the following
(a) Anticline
(b) Syncline | Non Pg(22),(23) |
| 12. | Sketch the following
(a) Dome
(b) Normal fault | Non Pg(22),(23) |
| 13. | Sketch the following
(a) Reverse fault
(b) Thrust fault
(c) Lateral fault | Non Pg(22),(23) |
| 14. | Discuss rotary drilling. | Non Pg(48),(49),(50) |
| 15. | Explain functions and classifications of casings. | Non Pg(84),(85),(86),(87),(88) |
| 16. | Sketch types of oil field pumping unit. | Non Pg(109) |
| 17. | Explain volume of mud in the system. | Mud Pg(27),(28) |

18. Describe the following.
- (a) Pumps Mud Pg(31)
 - (b) Cycle time Mud Pg(32),(33)
 - (c) Annular Velocity Mud Pg(33)
19. Discuss clays. Mud Pg(50),(51)
20. Discuss factors affecting filtration. Mud Pg(68),(69)
21. Write down mechanical emulsions. Mud Pg(116),(117)
22. Explain classes of petroleum. Non Pg(26),(27)
23. Describe types of rigs. Non Pg(42),(42),(44)
24. Describe cable tool drilling. Non Pg(44),(45),(48)
25. Explain casing accessories. Non Pg(88),(89),(90),(91)
26. Discuss cementing. Non Pg(91),(92),(93),(95)
27. Explain with the sketch subsurface electrical pumping. Non Pg(111),(112)
28. Explain with the sketch subsurface hydraulic pumping. Non Pg(112),(113),(114)
29. Write down casinghead and tubinghead. Non Pg(116),(117),(118)
30. Explain with the sketch wash tank or gun barrel. Non Pg(123),(124)
