

كلية الهندسة  
القسم: الهندسة النفطية  
الزمن: (3) ساعات  
أستاذ المقرر: د. حسن حويل  
رقم الطالب: .....

جامعة مصراته  
خريف 2014/ 2015  
الامتحان النهائي لمقرر / آليات حفر وإنتاج هـ.ن.311  
تاريخ الامتحان: 2015/03/30  
اسم الطالب: .....

Be specific, organized and answer **All of** the following questions in English, Arabic, OR Both, Also, use drawings and sketches as required:

First question

Q1- Discuss in detail **Directional Drilling** and compare it with today and modern drilling. (given 10 points).

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Second question

Q2. – Briefly define, and discuss in detail the **drilling fluid and particular functions** of the drilling mud. (given 10 points).

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Third question

Q3.– List the different **job holders in the drilling (Rig Crew)** and briefly, define **Five (5)** of these job holders. (given 10 points).

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Fourth question

Q4.– List **Five (5) main operations in a drilling rig** and briefly, define **four(4)** of these main operations. (given 10 points).

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Fifth question

Q5.– Just state **the number** of how many Rig Components you studied in Drilling & Production Machinery Course and briefly, define the followings: **Rat hole, Swivel, Dr... Collars, and Annulus** (given 10 points).

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Sixth question

Q6. – Briefly ***define, discuss, and state it's Components and Functions( for just (one))*** of the followings:  
***Christmas tree, Valves, Gathering Area, Well-head, and Separator.*** (given 10 points).

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Good Luck