

كلية الهندسة
القسم: هندسة النفط
الزمن : ساعتان
أستاذ المقرر: أ.

رقم الطالب:

جامعة مصراتة

خريف 2015/2014

الامتحان النهائي لمقرر/ التاكل في الصناعات النفطية
تاريخ الامتحان: 2015/03/28

اسم الطالب:

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Q1-a- Write main cathodic reactions in different environment .

b- What are the main functions of inhibitors ?

Q2-a- For a combination of **Zn - Cu** ,Explain by calculation of cell potential does corrosion happen or not . $E(\text{Zn})=-.763$, $E(\text{Cu})=+.337\text{v}$.

b- What's De-Zincification , and how to prevent it?

Q3-a- What are oxygen scavengers , Explain two of them.

b- What's inter-granular corrosion ? How to prevent ?

Q4-a- Explain with sketch how impressed current used to prevent corrosion.

b- What's MPY ? Explain the weigh difference method to measure corrosion.

Q5-a- What are sacrificial anodes, mention types and advantages.

b- Discuss with sketch the effect of PH on corrosion of iron.

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BEST WISHES