

القسم / الهندسة النفطية	كلية الهندسة – جامعة مصراتة	فصل الربيع 2016/2015
الزمن / ثلاث (3) ساعات	413	الامتحان النهائي لمقرر / جيولوجية نפט واستكشاف هن
استاذ المادة / أ. يوسف حيمه		التاريخ / 24 / 5 / 2016 م
رقم الطالب:		أسم الطالب:

Be specific, organized and answer **All** of the following questions, use **drawings** and **sketches** as requires:

Q\_1: Give a brief account about The three major types of hydrocarbon reservoirs ?  
(10 pts)

Q\_2: What are the **conditions must exist** In order to have a *hydrocarbon producing reservoir*? (10 pts)

Q\_3: How **permeability affected** by the **saturation and the physical** properties of the fluids in the reservoir.? (10 pts)

Q\_4: Define **primary** and **secondary** migrations. Give account about **primary migration**? (10 pts)

Q\_5:What is **Kerogen**? Give account about **kerogen types**? (10 pts)

Q\_6: explain At which **stage, diagenesis, catagenesis or metagenesis**, is **petroleum formed**? (10 pts)

Q\_7: Define : **Trap** \_ **spill point** \_ **closure**.? give a brief account about the **two main types of structural traps**? (10 pts)

Q\_8: Give a brief account about The **EARTH'S LAYERS**? (10 pts)

Q\_9: Give a brief account about the **four main contributors to organic matter** in sediments ? (10 pts)

Q\_10: What is a **contour**? Why do **geologists and geophysicists** make contour maps? What's the difference between a **topographic map** , a **structure contour** and **isopach map**? (10 pts)

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The allocation of marks and the suggested (approximate) allotment of time are as follows:  
Average **15 minutes** and **10 marks** for each question (Total **150 minutes**) (100 total marks)