# Click to download more NOUN PQ from NounGeeks.com

## NATIONAL OPEN UNVERSITY OF NIGERIA

PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI - ABUJA FACULTY OF SCIENCES

DEPARTMENT OF PURE & APPLIED SCIENCES

JANUARY 2018 EXAMINATION QUESTIONS

**CHM 311: PETROLEUM CHEMISTRY** 

**CREDIT: 2 UNIT** 

TIME: 2 HOURS

INSTRUCTION: ANSWER QUESTION ONE & ANY OTHER THREE QUESTIONS.

## **QUESTION 1**

a). Explain the terms Diagenesis and Mutagenesis. (15 marks)

b). Explain in detail the composition of crude oil. (5 marks)

c). Write the equation for the main stream reforming reaction. (5 marks)

#### **QUESTION 2**

a). Define the term Catagenesis. (5 marks)

b). Explain the term pour point. (5 marks)

c). Why is it necessary to treat natural gas before use? (5 marks)

## **QUESTION 3**

- a). What is catalytic methanation?(5 marks)
- b). Discuss the uses of ammonia. (5 marks)
- c). Define the following terms: oil field and Oil well. (5 marks)

### **QUESTION 4**

- a). Explain the term cracking as used in Petroleum chemistry. (5 marks)
- b). Explain in detail the origin and formation of biogas. (5 marks)
- c). Explain in detail how natural gas can be formed. (5 marks)

## **QUESTION 5**

- a). Explain the following terms: (i) Salt content, (ii) Sulphur content (iii) Ash content. (6 marks)
- b). Discuss the classification of crude oil. (9 marks)

