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FIRST SEMESTER EXAMINATIONS 2018/2019

COURSE CODE: AGY 401

UNITS: 3

COURSE TITLE: PETROLEUM GEOLOGY

TIME ALLOWED: 2HRS

INSTRUCTION: *Answer Four Questions, Question No. 1 is Compulsory.*

TOTAL MARKS: 60

- 1). With the aid of a schematic diagram describe the transformation of organic matter into petroleum.

- 2). Account for the following in the hydrocarbon habitat of Niger Delta Oil Province:
a) Depobelts. b) Growth Fault and Collapsed Crest Structures.

- 3). Write concisely on Oil Shale and Oil Disseminated Deposits as forms of surface occurrence of hydrocarbon.

- 4). Write short notes on the following forms of Crude Oil:
i) Paraffinic Base
ii) Naphtenic Base
iii) Aromatic Base
iv) Asphatic Base

- 5). With the aid of a schematic diagram describe the relationship between buoyancy and stratigraphic barrier in hydrocarbon trap formation.

- 6). Explain in detail the term 'Hydrocarbon Migration' and Geologic Framework associated with migration.