



ELIZADE UNIVERSITY, ILARA MOKIN
FACULTY OF BASIC AND APPLIED SCIENCES
DEPARTMENT OF PHYSICAL AND CHEMICAL SCIENCES
FIRST SEMESTER EXAMINATIONS 2016/2017

COURSE CODE: AGY 305
COURSE TITLE: SEDIMENTOLOGY

CREDITS: 2
TIME ALLOWED: 2HRS

TOTAL MARKS: 60

Matriculation Number: _____

A handwritten signature in black ink, enclosed in a rectangular box.

HOD'S SIGNATURE

INSTRUCTION: Answer all questions in part A in the spaces provided on question paper. In part B, answer any two questions.

PART A

1. Porosity in sandstone reservoir rocks is modified during burial through the following processes; i)..... ii).....
2. Two important features of sedimentary rocks that can be used for their classification are i)..... (ii)
3. List three types of detrital components of sandstone
.....
4. Compare and contrast ooids and pisoids
.....
5. Name two indicators of metamorphic provenance in sandstones
.....
6. When sandstone is positively skewed, that implies having excess coarse sand. True or False?

7. Enumerate the characteristics of wackestone

.....
.....
.....

8. The major products of chemical weathering (hydrolysis) of a microcline are

.....

9. List two orthochemical constituents of limestone

.....
.....

10. List the characteristics of fluvial deposits

.....
.....
.....

PART B

1a) Describe any four sedimentary structures and highlight their significances.

b) Compare and contrast detrital and authigenic quartz

2. Write short notes on the following (i) Saltation (ii) Roundness of Quartz (iii) Cementation (iv) Rock Fragments

3a) Describe the factors that favours the formation of quartz arenite in sedimentary basins and enumerate its characteristics.

b) Write short note on dolomite.

4 a) Explain the term sedimentary depositional environments

b) Enumerate the procedure and importance of grain size analysis

c) What is diagenesis? Mention three main diagenetic cements.