

Column (marking)

NNAMDI AZIKIWE UNIVERSITY, AWKA
FACULTY OF PHYSICAL SCIENCES
DEPARTMENT OF GEOLOGICAL SCIENCES

SECOND SEMESTER EXAMINATION 2017/2018 SESSION
COURSE TITLE: APPLIED GEOCHEMISTRY
COURSE CODE: GLS 432
TIME: 2 HOURS

SECTION A:

Answer any two questions:

- 24
1. (a) Discuss the necessity for removing harmful materials from the run-of-mine ore. (10)
- (b) Write briefly on ore transportation. (10)
2. Discuss the importance of storage in ore beneficiation.
3. (a) Discuss the two basic concerns of geochemistry. (10)
- (b) Write on the basic principles of geochemical prospecting. (15)

SECTION B

Answer any two questions

- 25
4. (a) Write in details on the importance of feldspar and mica as industrial minerals. (15)
- (b) (i) What is an aggregate. (5)
- (ii) Discuss micro gas survey. (5)
5. (a) Name three essential elements in the environment. (3) *Zinc, Iron, Lead, Chromium, Copper, Arsenic*
- (b) (i) Discuss the environmental and medical importance of cadmium and mercury. (15)
- (ii) Write on the processes involved in cement manufacturing. (15)
6. (a) Give a detailed description of "Gas Logging". (20)
- (b) (i) Discuss on five properties of aggregates. (20)
- (ii) What do you understand by industrial mineral? (40)
- used in testing*
supplies