

MINING

EXAMINATION SCHEME

There will be two papers-1& 2 both of which must be taken as a composite paper in one sitting for a duration of 2 hours 45 minutes.

Paper 1: will consist of forty multiple choice objective questions all of which are to be answered in 40 minutes for 40 marks.

Paper 2: will comprise two sections, Section A and Section B as follows:

Section A: will consist of 10 short structured questions covering the entire syllabus. All the questions should be answered in 40 minutes for 40 marks.

Section B: will consist of five essay-type questions from which candidates are to answer any three questions for 60 marks in 1 hour 25 minutes.

SAMPLE OBJECTIVE QUESTIONS

1. What is the name of the outermost zone of the inner structure of the solid earth?
 - A. Sima
 - B. Mantle
 - C. Sial
 - D. Barysphere

2. Which of the following is a gemstone?
 - A. Quartz
 - B. Ruby
 - C. Feldspar
 - D. Mica

3. A mandatory safety project that is normally embarked upon before projects are carried out is called
 - A. feasibility study.
 - B. market segmentation.
 - C. environmental impact assessment.

- D. capital budgeting.
4. Which of the following minerals is formed through the process of sedimentation?
- A. Iron ore
 - B. Granite
 - C. Basalt
 - D. Limestone
5. During what age did mining start?
- A. Space age
 - B. Iron age
 - C. Bronze age
 - D. Stone age
6. Which of the following is a common disease that is associated with mining activities?
- A. Appendicitis
 - B. Asthma
 - C. Malaria
 - D. Indigestion
7. Which of the following is an environmental law which governs the treatment, storage and disposal of effluents?
- A. Investment law
 - B. Financial law
 - C. Waste law
 - D. Tax law
8. Which of the following is a technique used in feasibility studies?
- A. Geophysical technique
 - B. Hydrometallurgical technique
 - C. Electrometallurgical technique

- D. Pyrometallurgical technique
9. The North Central Highlands of Nigeria is mainly made up of
- A. sedimentary deposits.
 - B. metamorphic rocks.
 - C. basement complex rocks.
 - D. clay deposits.
10. Which of the following is **not** a feature of underground mine?
- A. Shaft
 - B. Hanging wall
 - C. Vem
 - D. Humus

SHORT STRUCTURED QUESTIONS

1. Name **four** Personal Protective Equipment (PPE) used in mining operations. (4 marks)
2. State **four** advantages of surface mining. (4 marks)
3. What are the **two** main products of mineral processing? (4 marks)

ESSAY QUESTIONS

1. (a) What is mining? (2 marks)
- (b) Outline **five** economic benefits of mining. (10 marks)
- (c) Highlight **four** problems associated with mining. (8 marks)
2. (a) Name the **three** classes of rocks. (3 marks)
- (b) Describe how any **two** of the three classes of rocks are formed. (12 marks)
- (c) With the aid of a diagram, explain the rock cycle. (5 marks)

