

**4-YR. B. ED BASIC EDUCATION JHS SCIENCE OPTION)**

**DATE/TIME: 11/05/2024, AFTERNOON SESSION**

**COURSE CODE: JBS351**

**COURSE TITLE: ENVIRONMENTAL AND SOCIAL ISSUES IN COMTEMPORARY GHANA**

**LEVEL: 300**

**(DURATION: 1:30 HOURS)**

**INSTRUCTIONS:** This paper is made up of two sections—**A** and **B**. You are to answer **all** questions in section **A** and **three (3)** questions from section **B**. **However, question one in Section B is compulsory.** Write **all** your answers in the answer booklet provided. The total mark for this paper is **80**.

**SECTION A (40 Marks):** Answer *all* questions in this section.

1. In which year did Mayow prove that air is not an element but a mixture of two substances, one of which is active and the other, non-reactive? **(2 marks)**
    - A. 1654
    - B. 1664
    - C. 1674
    - D. 1684
  2. Which of the following is the main reason for sexual education in basic schools? **(2 marks)**
    - A. Promote myths
    - B. Encouraging a measured population
    - C. Discouraging myths and misconceptions
    - D. Solving global issues
  3. Which of the following is not a sub categorization of natural resources? **(2 marks)**
    - A. Renewable
    - B. Non-renewable
    - C. Biotic
    - D. Developmental
  4. Based on their level of development, natural resources can be categorized in all the following ways **except** **(2 marks)**
    - A. Renewable
    - B. Reserve resources
    - C. Stock resources
    - D. Potential
  5. The following are all layers of the atmosphere **except** **(2 marks)**
    - A. Troposphere
    - B. Setosphere
    - C. Mesosphere
    - D. Stratosphere
- HEAD, EXAMINATION UNIT  
IDEL REGISTRY  
WINNEB

HEAD, EXAMINATION UNIT  
IDEL REGISTRY  
UNIVERSITY OF EDUCATION, WINNEBAGO

6. ....is responsible for the gorgeous aurora displays we see across the night sky  
(2 marks)
- A. Ionosphere
  - B. Thermosphere
  - C. Mesosphere
  - D. Stratosphere
7. This technique of classroom engagement encourages learners to generate ideas uncritically, with comments and evaluation considered later  
(2 marks)
- A. Think-Pair-Share
  - B. Brainstorming
  - C. Simulation
  - D. Role-play
8. ....refers to the variability of earth's living things and their interactions in nature among themselves and their habitats.  
(2 marks)
- A. Conservation
  - B. Diversity
  - C. Biodiversity
  - D. Ecosystem
9. ....refers to the concept of recycling the nutrients from human and animal wastes to the environment.  
(2 marks)
- A. Ecological sanitation
  - B. Environmental sanitation
  - C. Onsite sanitation
  - D. Basic sanitation
10. *Ancylostoma duodenale* and *Necator americanus* are examples of.....  
(2 marks)
- A. Hookworms
  - B. Schistosomiasis
  - C. Leptospirosis
  - D. Typhoid fever
11. How many of the SDGs are targeted towards addressing environmental sustainability, accountability and management and its related issues?  
(2 marks)
- A. 4
  - B. 5
  - C. 6
  - D. 7
12. Which of the following is **NOT** a renewable natural resource?  
(2 marks)
- A. Soil
  - B. Water
  - C. Wind
  - D. Fossil fuel
13. The process by which organisms break down organic matter to create nutrients for plants and soil is known as.....?  
(2 marks)
- A. Natural selection
  - B. Pollination
  - C. Photosynthesis
  - D. Decomposition

HEAD, EXAMINATION UNIT  
IDeL REGISTRY  
UNIVERSITY OF EDUCATION, WINNEBA



14. The characteristic of natural resources that implies that they can be stored for a longer period of time without deteriorating is known as.....? (2 marks)
- A. Finiteness
  - B. Versatility
  - C. Destructibility
  - D. Uneven distribution
15. Which of the following is one of the classifications of natural resources based on the origin? (2 marks)
- A. Actual resources
  - B. Potential resources
  - C. Biotic resources
  - D. Reserve resources
16. Integration of economic and environmental interests in a comprehensive manner is necessary to achieve the objectives of? (2 marks)
- A. Sustainable land development
  - B. Global change
  - C. Economic advancement
  - D. Sustainable development and growth
17. The collaboration teaching strategy which was initially proposed by Frank Lyman of the University of Maryland in 1981 is..... (2 marks)
- A. Discussion technique
  - B. Debate technique
  - C. Think-Pair-Share technique
  - D. Simulation technique
18. ....is managing resources to be used wisely. (2 marks)
- A. Conversion
  - B. Conversation
  - C. Renewable
  - D. Conservation
19. Coal, gas and oil are all examples of .....resources. (2 marks)
- A. Renewable
  - B. Inexhaustible
  - C. Non-renewable
  - D. Cultural resources
20. Which of the following activities does not deplete life and vegetation? (2 marks)
- A. Over grazing
  - B. Deforestation
  - C. Environmental pollution
  - D. Afforestation

HEAD, EXAMINATION UNIT  
IDEL REGISTRY  
UNIVERSITY OF EDUCATION, WINNEBA

**SECTION B (40 marks): Answer Question One and any other two (2) questions from this section. (NB: WHERE NECESSARY, INTRODUCTION AND CONCLUSION WOULD CARRY MARKS)**

1. At a PTA meeting in your school, a parent expresses worry that going through the books of the ward, it was detected that reproductive health education have critical elements which include family planning services, promoting safe motherhood, prenatal, safe delivery and post-natal care, including breast feeding. As the SHEP coordinator of your school, advance four (4) points to allay the fears of parents that reproductive health education is beneficial to learners. **(20 marks)**
2. The holy scriptures for both Christians and Muslims, describe Adam as God's vice-regent on earth, who was charged with the responsibility of keeping planet earth safe for future generations yet unborn. This means that the responsibility of man towards the environment is not only physical, but divine. Examine (4) ways individuals can contribute to environmental sanitation. **(10 marks)**
3. The misconceptions that parents have about introducing their children to knowledge related to adolescent reproductive health has relegated the duty to the classroom teacher. As a Social Studies teacher, suggest four (4) instructional pedagogies that can be adopted to teach concepts related to reproductive health education in basic schools. **(10 marks)**
4. The continuous destruction of the environment through galamsey activities is an indication that a lot of Ghanaians take our water bodies for granted. At a public forum in a galamsey area, explain four (4) ways thermal pollution affects the development of the Ghana. **(10 marks)**
5. Over exploitation of natural resources has become a bane to developing countries over the years. Explain four (4) characteristics of natural resources in a bid to caution developing countries on the measured use of their resources. **(10 marks)**

HEAD, EXAMINATIONS  
IDEL REGISTRY  
UNIVERSITY OF EDUCATION, WINNEBA