



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**FACULTY OF SCIENCES**  
**DEPARTMENT OF ENVIRONMENTAL SCIENCE AND RESOURCE MANAGEMENT**  
Plot 91, Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja  
**2024 1 EXAMINATION**

**COURSE CODE: ESM 431**

**COURSE TITLE: Environmental Health and Safety**

**CREDIT: 2 Units**

**TIME ALLOWED: 2 Hours**

**Instruction:** Attempt question number ONE (1) and any other TWO (2) questions. Question number one (1) carries 30 marks, while the other questions carry (20) marks each.

**QUESTION ONE**

- a. Enumerate the principles of first aid
- b. Mention situations when artificial respiration is required
- c. Clearly state how mouth-to-mouth respiration can be carried out
- d. A case of poisonous snake bite was reported in your neighbourhood, what first aid actions will you take?
- e. Discuss costs of industrial accidents

**QUESTION TWO**

- a. Mentions three bases on which Accidents may be classified
- b. Itemise the elements of fire
- c. What are the principles of accident prevention

**QUESTION THREE**

- a. Explain fire-fighting systems
- b. As first aider mention the dos and do nots of electric shock victims
- c. What are the steps to be taken in readiness for possible hearing the fire alarm?

**QUESTION FOUR**

- a. If a fire is discovered, what do you advice the discoverer should do?
- b. What are the essential elements of a health and safety plan?
- c. As first aider mention the dos and do nots of bleeding victims

**QUESTION FIVE**

- a. Mention five categories under which environmental aspect can be divided
- b. Describe environmental management system (EMS)
- c. State four main elements of environmental management system