



National Open University of Nigeria
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science
SEPTEMBER 2020_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 THREE (3) questions. Question number one (1) carries 25 marks, while the other questions carry (15) marks each.

- 1(a)(i) What is the Environment? **(2 marks)**
- (ii) Mention the natural processes by which the environment is kept stable. **(3½ marks)**
 - (iii) Why is there need for environmental sustainability? **(1½ marks)**
 - (iv) What immediate measures around your home or work place could encourage environmental sustainability? **(3 marks)**
- 1(b)(ii) State the main elements of ISO 14001. **(7 marks)**
- 1c(i) Enumerate the phases involved in carrying out an environmental audit exercise. **(4 marks)**
- (ii) Explain the role of risk management in a workable EMS. **(4 marks)**
- 2(a) What is Environmental Management Systems (EMS) and its main elements? **(10 marks)**
- (b) List the different classes of fires, which can occur. **(5 marks)**
- 3(a) Describe the key elements of the OH & S management system. **(10 marks)**
- (b) List 5 principles of First Aid. **(5 marks)**
- 4(a) Differentiate between Waste Minimization and Clean Technology. **(8 marks)**
- (b) What are the benefits/uses of LCA to an organization? **(7 marks)**
- 5(a) What is Risk Assessment? **(10 marks)**
- (b) List the importance of CBA as an EMS tool. **(5 marks)**