



National Open University of Nigeria
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science
2023_2 EXAMINATIONS_

COURSE CODE: ESM 311

COURSE TITLE: AIR AND NOISE POLLUTION.

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.

- 1a) Using criteria used by WHO (1997) define noise-induced hearing loss. **(3marks)**
1b) Explain the Pathogenesis of Noise-Induced Hearing Loss **(7marks)**
1c) State the components involved in the hearing conservation programmes for occupational settings **(7marks)**
1d) State the specific effects of the following pollutants **(6marks)**
 i) Ozone
 ii) SO₂
1e) State the 2 categories of exposure to noise causing noise induced hearing loss in African countries **(2marks)**
- 2a) Explain the effect of air pollution on vegetation **(3marks)**
2b) Mention manufacturing factories in Africa that may cause exposure to high levels of noise **(2 marks)**
2c). How does air pollution degrade visibility? **(7marks)**
2d) What are the 3 classes of pollutants based on physical state? **(3marks)**
- 3a) What are the natural and anthropogenic sources of Sulphur – containing compounds? **(6marks)**
3b) State the strategies in the non-occupational setting hearing conservation **(9marks)**
- 4a) What is the major social value underlying protection from workplace noise?**(3marks)**
4b) Explain the Legal approach in preventing noise pollution. **(12marks)**
- 5a) Mention the 3 sources of non-occupational noise **(3marks)**
5b) List 4 professionals exposed to hazardous noise. **(2marks)**
5c) State the primary motive for industrial noise control and related programmes. **(4marks)**
5d) Discuss the technological approaches involved in preventing noise pollution for
 i) Road traffic noise **(3marks)**
 ii) Aircraft noise **(3marks)**

Seller: You these book people sef. Shirt is shirt. Nigerian tailors are better than those in the US, UK... in short everywhere.

Buyer: Ok. Thanks. But I don't want to buy the shirt.

3. A conversation between a mother and her daughter.

Mother: Uloma, what took you so long? Just to grind pepper at Mama Rashida's place and you have been gone for more than 40 minutes.

Daughter: Mama, I saw Mr. Wilson. He said I should greet you.

4. Conversation among friends.

Speaker A: Have you heard from Ade recently?

Speaker B: Yes, I was at his house last week.

Speaker A: Oh, that's good. How is he?

Speaker B: Fine. I saw a bird in a cage that can talk in his house.

(17½/45 minutes)

3. (a) Distinguish between text and textuality. (4 marks)

(b) Discuss cohesion and coherence as features of text. (4 marks)

(c) Read the following passage and identify the thematic progression patterns in it. (9½ marks)

Mr Adamu is my colleague at the office. **He** travelled to France last year. **The Chairman** of our company is Chief Amusa. **Chief Amusa** is from Ogun state. **Ogun state** consists of Abeokuta, Ijebu, Yewa, and so forth. **Abeokuta** is the state capital. **Ijebu Ode** is where the Awujale has his palace.

(17½/45 minutes)

4a) Discuss the concept of speech community. (3½ marks)

b) Briefly explain the term conversation analysis. (4 marks)

c) Distinguish between turn taking and adjacency pairs. (10 marks)

(17½/45 minutes)

5a) Explain Critical Discourse Analysis as an approach to the study of language. (3½ marks)

b) Identify the steps a researcher will need to take when conducting a research using the Critical Discourse Analysis. (4 marks)