



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**UNIVERSITY VILLAGE, PLOT91, CADASTRAL ZONE**  
**NNAMDI AZIKIWE EXPRESS WAY, JABI, ABUJA**  
**FACULTY OF HEALTH SCIENCES**  
**DEPARTMENT OF PUBLIC HEALTH SCIENCE**  
**2021\_1 EXAMINATION QUESTIONS**

**COURSE TITLE: Environmental Health (PHS807)**

**COURSE UNITS: 2 Units**

**TIME ALLOWED: 1½ Hours**

**TOTAL MARKS: 70 %**

**INSTRUCTION: Answer all the Questions**

**QUESTION 1                      30 marks**

- 1a). In a known rural community over 90 % of the women employ firewood for cooking and this process leads to the release of a variety of air pollutants. Briefly describe this scenario and what the key pollutants would be. **(10 marks)**
- 1b). Exposure to air pollutants results in deleterious effects. Give an account of the harmful effects associated with exposure to CO arising from automobile emissions. **(10 marks)**
- (c) Briefly outline the hazards associated with chronic exposure to particulate matter in a rice processing mill. **(10 marks)**

**QUESTION 2                      20 marks**

- 2a). A community in South eastern Nigeria has a river as its major source of water supply. Explain giving reasons based on certain indicators if this water source is potable or not. **(5 marks)**
- 2b). An urban water supply system requires some measure of treatment prior to distribution. State the objectives for and key methods employed in such a water treatment plant. **(7 marks)**
- 2c). Mention some of the diseases that are associated with contaminated water and other water related conditions. **(8 marks)**

**QUESTION 3                      20 marks**

- 3a). World Health Organization is the major United Nations organ that oversees health issues. State its five key principles related to food hygiene to help in the prevention of food related illnesses. **(5 marks)**
- 3b). What is HACCP. Outline briefly all the steps involved in HACCP that are employed in food hygiene and safety. **(8 marks)**
- 3c). Most food-borne illnesses are caused by microorganisms. Briefly describe the characteristics of viral-based food-borne illness. **(7 marks)**