



NATIONAL OPEN UNIVERSITY OF NIGERIA
Plot 91, Cadastral Zone, National Azikiwe Expressway, Jabi-Abuja
FACULTY OF HEALTH SCIENCES
(Department of Environmental Health Science)
2025_1 EXAMINATION...

Course Code: EHS 415

Course Title: Public Utilities and Environmental Health Issues

Course Unit: 2

Time Allowed: 1 ½ Hours

Total Score: 70 Marks

Instruction: Answer ALL the Questions

Question 1

- (a) Briefly discuss the Natural monopoly of public utilities **(2 marks)**
- (b) Mention three (3) differences between utilities and other business organizations **(3 marks)**
- (c) Discuss the reasons for the differences between utilities and other business organizations mention in (b) above. **(6 marks)**
- (d) Briefly discuss the macroeconomic and microeconomic linkages in which utility privatization can affect the poor. **(4 marks)**
- (e) Indicate five (5) Benefits of Privatization of Public Utilities Companies **(10 marks)**

Question 2

- (a) Briefly discuss at least four megatrends that impact all utilities, regardless of size, location, or sector, and which function as major barriers to their continued sustainability. **(8 marks)**
- (b) Highlight and discuss the major determinants of health as stipulated by CDC, (2014) and WHO, (2014). **(10 marks)**
- (c) State two (2) identified problems of water supply and distribution **(2 marks)**

Question 3

- (a) What is Drainage? **(3 marks)**
- (b) Explain the following terms:
 - (i) Surface drainage **(2 marks)**
 - (ii) Sub-surface drainage **(2 marks)**
- (c) List three (3) benefits of improving sanitation **(3 marks)**
- (d) Write a short note on the following:
 - (i) Container-based sanitation **(5 marks)**
 - (ii) Ecological sanitation **(5 marks)**
 - (iii) Emergency sanitation **(5 marks)**