



NATIONAL OPEN UNIVERSITY OF NIGERIA
University Village, Plot 91 Cadastral Zone, Nnamdi Azikiwe Express Way, Jabi - Abuja.
FACULTY OF SCIENCES
DEPARTMENT OF ENVIRONMENTAL SCIENCE
2025_2 EXAMINATIONS

COURSE CODE: ESM 324

CREDIT UNITS: 2

COURSE TITLE: URBAN ENVIRONMENTAL MANAGEMENT

DURATION: 2 Hrs.

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

1. a. Define Urbanization. **4marks**
b. Highlight the forms of interactions between rural and urban settlements. **4marks**
c. Explain the following models of urban land use patterns:
 - i. Concentric zone model. **3marks**
 - ii. Sectorial Model. **3marks**
 - iii. Multiple-Nuclei Model. **3marks**
d. Explain two methods of urban renewal. **5marks**
e. Itemize three types of slums in Nigeria. **3marks**
f. Discuss the effectiveness of urban development policies in Nigeria. **5marks**
(30marks)
- 2a. Explain the meaning of the concepts 'Urbanization' and 'Urbanism'. **6marks**
b. Itemize the factors that influenced urban growth in the twenty-first century. **7marks**
c. Discuss any three advantages of urban centers for economic activities. **7marks**
(20marks)
- 3a. How would you distinguish urban from rural areas? **6marks**
b. Explain the development of squatter settlements around cities. **7marks**
c. Briefly explain the levels of urbanization in Nigeria. **7marks**
(20marks)
- 4a. What is urban bias? **5marks**
b. Comment on Private-Public Partnership in the provision of housing in Nigeria. **10marks**
c. Itemize any three factors that determine urban housing provision. **5marks**
(20marks)
- 5a. Briefly comment on the following methods of waste disposal:
 - i. Dumping. **4marks**
 - ii. Landfill. **4marks**
 - iii. Incineration. **4marks**
b. Discuss any two problems of waste disposal in urban areas. 2.5marks. Suggest solutions to these problems. **4marks**
c. What are slums? **4marks**
(20marks)