



NATIONAL OPEN UNIVERSITY OF NIGERIA
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi- Abuja.
Faculty of Health Sciences
Department of Environmental Health Science
2023_2 EXAMINATIONS

Course Code: EHS 413

Course Title: URBAN PLANNING AND SUSTAINABLE DEVELOPMENT

Course Unit: 2 Credit Units.

Time Allowed: 1 ½ Hours.

Total Score: 70 Marks.

Instruction: Answer All Questions.

Question 1

The percentage of an area covered by impervious surfaces such as asphalt and concrete is said to be a measure of ‘high development’. These impervious surfaces can easily be detected and interpreted in remotely sensed data including satellite images.

- a. Give two notable examples of such impervious surfaces. (10 marks).
- b. Give the disadvantages that such an impervious surfaces may cause especially in a tropical, high rainfall region. (10 marks).

Question 2

In planning a city, experts consider many important factors such as population, transportation, etc. In recent times, energy/power has become a major consideration in the life of all human settlements, whether urban or rural. Therefore, an Environmental Health Officer, being a stakeholder in the planning and life activities of cities must be familiar with core issues in energy/power.

- a. Identify the conventional sources of energy. Give at least one example in each case. (12 marks).
- b. Identify the non-conventional or alternative sources of energy. Give one example in each case. (18 marks).

Question 3

- b). What are the main distinguishing features of an urban sprawl? (10 marks).

(a) Identity how Land Use Decree (LUD) (1978) could possibly strengthen federalism in

Nigeria. (10 marks).