**Електронний навчально-методичний комплекс дисципліни (ЕНМКД)**

**«Наукова іноземна мова (англійська)» для дистанційного навчання**

Кафедра іноземних мов Паніна Олена Віталіївна

Спеціальність «Архітектура», VІ курс, кількість годин (Модуль 1) … …

Методичне забезпечення: підручник «English for Natural Sciences», Київ, 2004.

LESSON 4

ТHEME: PRINCIPLES OF ARCHITECTURE

R E A D I N G

Text PRINCIPLES OF ARCHITECTURE

**Знати:**

* Terminology used in the Text.

**Вміти:**

* Read and translate the text “Principles of Architecture”.
* Answer the questions using key words.
* Ask all possible questions related to the main issues of the text.

W R I T I N G (Ex. I, p.4)

**Знати:**

* Content and vocabulary, primarily terminology of the Text.
* Have knowledge of the main steps useful for developing an abstract (See, Lesson 3, Ex. IX, p. 4).
* Clichés commonly used in written abstracts (See, Lesson 3, Ex. IX, p. 4).

**Вміти:**

* Analyze the content of the text.
* Be able to write an abstract of the text following the available algorithm.

**Read the text, analyze its content, translate the text, and use the proposed algorithm to write the abstract on Principles of Architecture:**

PRINCIPLES OF ARCHITECTURE

 A building is an assemblage that is firmly attached to the ground and that provides total or nearly total shelter for machines, processing equipment, performance of human activities, storage of human possessions, or any combination of these.

*Building design* is the process of providing all information necessary for construction of a building that will meet its owner's requirements and satisfy public health, welfare, and safety requirements. *Architecture* is the art and science of building design. *Building construction* is the process of assembling materials to form a building.

 Building design may be legally executed only by persons deemed competent to do so by the state in which the building is to be constructed. Competency is determined on the basis of education, experience, and ability to pass a written test of design skills.

*Architects* are persons legally permitted to practice architecture. *Engineers* are experts in specific scientific disciplines and are legally permitted to design parts of buildings.

 In the design of a building, architects should be guided by the following principles:

1. The building should be constructed to serve purposes specified by the client.

2. The design should be constructible by known techniques and with available labor and equipment, within an acceptable time.

3. The building should be capable of withstanding the elements and normal usage for a period of time specified by the client.

4. Both inside and outside, the building should be visually pleasing.

5. No part of the building should pose a hazard to the safety or health of its occupants under normal usage, and the building should provide for safe evacuation or refuge in emergencies.

6. The building should provide shelter and control of the interior environment - air, temperature, humidity, light, and acoustics - specified by the client and not less than the minimums required for safety and health of the occupants,

7. The building should be constructed to minimize adverse impact on the environment.

8. 0peration of the building should consume a minimum of energy while permitting the structure to serve its purposes.

9. The sum of costs of construction, operation, maintenance, repair, and anticipated future alterations should be kept within the limit specified by the client.

 The ultimate objective of the design is to provide all the information necessary for the construction of a building. This objective is achieved by the production of drawings, or plans, showing what is to be constructed, specifications stating what materials and equipment are to be incorporated in the building, and a construction contract between the client and a contractor.

I Choose the best answer:

*1.* *The text is devoted to:*

- the costs of construction;

- a construction contract to be signed by the client and a contractor;

- a number of principles an architect should follow in design of a building;

- construction machines and equipment to be used by contractor.

*2.* *The objective of the text is to acquaint (the reader) with:*

- adverse impact on the environment produced by the construction of a building;

- the major requirements to be met by an architect in the building design;

- architectural drawings and plans;

- the building construction process.

*3.* *The supporting facts to be left out while writing the abstract include:*

- architecture as the art and science of building design;

- competency of architects and construction engineers;

- the ultimate objective of design;

- principles that architects should consider while designing a building.

*4. The main conclusion which can be drawn from the text is:*

- the building should be visually pleasing;

- the building design should be constructible;

- operation of the building consumes much energy;

- the building should be constructed to serve different purposes including shelter, safety, healthy environment for the occupants, nice interior and exterior, minimal adverse impact on nature, low energy consumption etc.