

**NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
FACULTY OF ARCHITECTURE AND QUANTITY SURVEYING

**DEPARTMENT OF ARCHITECTURE**  
BACHELOR OF ARCHITECTURAL STUDIES (HONOURS) DEGREE

PART V SUPPLEMENTARY EXAMINATIONS – JULY 2003  
**AAR 5104 INTRODUCTION TO PROFESSIONAL PRACTICE**

**Instructions**

**Time : 3 Hours**

*Answer All Questions*

**QUESTION 1**

PROFESSIONAL CONDUCT AND LIABILITY

Anyone involved in the design or construction of buildings could, at some time or other, find themselves facing an action against them for negligence. Outline the two principal ways that architects can have claims made against them, and give some examples of how professional risk can be reduced. (25 marks)

**QUESTION 2**

TOWN PLANNING LEGISLATION

- a) Briefly define the four objectives of the Town planning Act, and explain the one which particularly concerns architectural practice. (12½ marks)
- b) What role does the Local Authority play in order for planning approval to be obtained? (12½ marks)

**QUESTION 3**

FACTORIES, WORKS, ACT & REGULATIONS & MODEL BUILDING BY – LAWS.

- a) Describe in point form, the procedure, documents and fees required in the submission of plans for a new factory, to the building inspectorate. (5 marks)
- b) What is the minimum level of natural light required in the following:  
1.0 factory (express as a percentage of floor area)  
2.0 Kitchen in dwelling  
3.0 Bedroom in dwelling (5 marks)
- c) For factory night shift work, what minimum intensity of lighting is required to be provided at the point of operation? (Express in LUX) (5 marks)
- d) i) How much floor space per person must be allowed in the working space of a factory? (2½ marks)
- ii) What is the minimum floor area allowed for any habitable room? (2½ marks)

e) What is the minimum clear floor to ceiling height required for the following:

- i) Factories
- ii) Dwellings
- iii) Shops
- iv) Offices

(5 marks)

#### **QUESTION 4**

##### CONDITIONS OF ENGAGEMENT AND GOVERNMENT PROCEDURES

- a) The services of a firm as architects for a major project have been terminated during the supervision period and your firm has been appointed to complete the supervision of the works. Explain the basis on which you would calculate your fee and the obligation your firm has of the Building Contract. (12 marks)
- b) Explain the reason why in most parts of the world, in order to practice, Architects are required to be registered officially and the reason for a mandatory scale of fees. (6½ marks)
- c) What are the relative roles of a project architect MPCNH, a consultant architect and the Provincial Officer Operations, when all are working on the same project. (6½ marks)