

The Papua New Guinea University of Technology  
Department of Architecture and Building  
Second Semester, 2023

**AR222 - Modern Architecture**

Date: Monday (23<sup>rd</sup> October, 2023)  
Time: 8.20am  
Room: Architecture Studio 1  
Duration: 3 hours

**Instruction to Candidates:**

- 1.0 You have 10 minutes to read the paper.  
You must not begin writing during this time.
- 2.0 All answers must be written on the answer book(s) provided
- 3.0 Print your name and student identification number on the answer book(s) provided.  
Do it now.
- 4.0 No reference material is allowed in the examination room.
- 5.0 No mobile phones allowed.
- 6.0 Attempt All Questions
- 7.0 **NB: This examination has 2 parts: Part A, and Part B.**
  - 7.1 **Part A** has 5 questions (this part includes Question No.1 through to Question No.5).
  - 7.2 **Part B** also has 5 questions (it is made up of questions from Question No.6 through to Question No.10).
  - 7.3 Ensure to provide answers in separate clearly labeled Part A and Part B Answers Books

## **PART A** (Total 22 marks)

### **Question No.1** (5 marks)

The Industrial Revolution which began in Great Britain is considered as one of the main contributing factors that gave rise to modern architecture. Explain highlighting influencing factors.

### **Question No.2** (5 marks)

Describe the main characteristics of modern architecture that distinguishes it from other styles of architecture.

### **Question No.3** (4 marks)

The Bauhaus movement is credited as an important contributor to the modern movement in architecture. State its origins and identify at least 3 architects who can be considered as fathers of this movement.

### **Question No.4** (4 marks)

The architecture profession in the United States of America (USA) can be considered as one group, which greatly promoted the ideals of modern architecture. Explain why this might be the case highlighting inventions and construction systems used by the Americans.

### **Question No.5** (4 marks)

What is the '*International style*' of architecture. Explain the reasons for its popularity.

## **PART B** (Total 20 marks)

### **Question No.6** ( 3 marks)

Describe the effects of Car/Automobile in Modern era.

### **Question No.7** ( 3 marks)

List the Chicago style's principles.

### **Question No.8** ( 4 marks)

What is Art Nouveau based on and how is it represented in building design?

### **Question No.9** ( 5 marks)

How the phrase "Form Follow Function" appear in design thinking?

### **Question No.10** ( 5 marks)

How does romantic philosophy affect the attitude of Organic style?  
Describe briefly its effects, similarities and differences.