

The Papua New Guinea University of Technology
Department of Architecture and Construction Management
Second Semester, 2021

AR 222 – Modern Architecture

Date: Wednesday 3rd November 2021
Time: 8.20am
Room: L2
Duration: 3 Hours

Instructions 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

Question No.1 (3 marks)

- (a) What is modern architecture? (b) When did it come about in history?

Question No.2 (3 marks)

Identify and briefly explain three (3) characteristics of modern architecture.

Question No.3 (5 marks)

- (a) What is the industrial revolution?
(b) Which country was responsible for the onset of the industrial revolution?
(c) How did the Industrial revolution affect the modern world?

Question No.4 (3 marks)

Explain how the industrial revolution may have contributed to the promotion of modern architecture.

Question No.5 (3 marks)

Identify and briefly explain three (3) negative social impacts of the industrial revolution.

Question No.6 (4 marks)

- (a) What did the Ecole des Beaux-Arts contribute to architecture?
(b) Which country was responsible for the birth of the Beaux-Arts?
(c) Where did the Bauhaus movement begin?
(d) Name one of the founders of the Bauhaus movement.

Question No.7 (6 marks)

Why are these three (3) structures significant in the evolution of architecture:

- (a) Crystal Palace (in Gt Britain)
(b) Eiffel Tower (in France)
(c) Home Insurance Building (in Chicago, USA)

Question No.8 (6 marks)

- (a) List the main ingredients used to make concrete.
- (b) Identify and briefly explain three (3) advantages of concrete as a building material.

Question No.9 (6 marks)

- (a) Name 3 architects who are seen to be the main proponents of modern architecture
- (b) Correctly identify their nationalities

Question No.10 (4 marks)

- (a) What is the international architectural style
- (b) Why is it very popular?