

**PAPUA NEW GUINE UNIVERSITY OF TECHNOLOGY  
DEPARTMENT OF ARCHITECTURE AND CONSTRUCTION MANAGEMENT**

**FIRST SEMESTER 2022 EXAMINATION**

**BL581 PROFESSIONAL PRACTICE**

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**ROOM: ST1**

**DATE: Wednesday 01 JUNE 2022**

**TIME: 12:50pm – 3:50pm**

**DURATION: 3 HOURS**

**Instruction to Examinee:**

1. You have 10 minutes to read the question paper. You must not begin writing during this time.
2. ALL ANSWERS MUST BE WRITTEN ON THE ANSWER BOOKLET PROVIDED
3. WRITE YOUR NAME AND IDENTIFICATION NUMBER CLEARLY ON THE FRONT PAGE OF THE ANSWER BOOKLET AND ATTENDANCE SLIP. DO IT NOW.
4. No reference materials are allowed in the examination room.
5. There are nine (9) questions in this examination paper. You are required to answer all questions.
6. Materials to be supplied by students:
  - a) Writing implements
  - b) Erasers
  - c) Correction Fluid
  - d) Ruler
7. No mobile phone is allowed in the Examination room

**TOTAL MARKS= 100**

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**Question 1 (10 marks)**

Briefly outline why Continuous Professional Development (CPD) is considered so important within the construction industry.

**Question 2 (10 marks)**

Explain the significance of a 'Programme of Works' supplied by the contractor to the Client or the Superintendent at the commencement of the contract.

**Question 3: (10 marks)**

If you were in a construction dispute, explain which method you would choose to resolve the dispute and the factors which may influence your decision

**Question 4 (15 marks)**

The Salum Development Authority (SDA), a commercial arm of the Salum Local Level Government Council (SLLGC) has obtained funding of K1,000,000.00 for the construction of the new fresh produce market facility. In September 2021, they submitted their drawings done by a registered architect to the Building Board for approval and gained the necessary approvals in January 2022. The Council President proposed that his construction company would be able to complete the construction of the new facility within 6 months and at the same time save the Council K200,000.00 by building the new market for K800,000.00. If you were employed by the SLLGC as a Project Manager to manage this project, what would you advise the Council and the President before proceeding with the proposed works. To your knowledge the SLLGC/SDA has a poor reputation in implementing past projects. If the works were to proceed, what form of tendering process would you recommend and state the reasons for your recommendation.

**Question 5 (15 marks)**

The Catholic Church in Wewak, East Sepik Province has engaged Premier Construction Ltd to build double classroom for its community school and a new house for the local priest. Construction is 90% complete and Premier Construction Ltd has started to clean up the site and getting ready to complete the buildings ready for the official handover, and leave the site in 4 weeks' time. The principal of a nearby High School some 800m away from the church area is planning to construct two (2) double classrooms and two (2) teachers houses. You have been engaged by the school as their consultant for the proposed infrastructure programme, and told that funds are available and drawings are in order. The principal has expressed his keenness to engage Premier Construction Ltd, to undertake the proposed works.

As a consultant to the school for this project you are required to advice the School Board the most appropriate method of tendering for the project. Give reasons why you have selected the proposed form of tendering, discussing the advantages and disadvantages of the method you have selected.

**Question 6 (10 marks)**

Projects in the Districts and remote Island communities are always affected by delays. Identify 5 main causes of construction delays in an Island community in New Ireland and discuss how you can avoid them.

**Question 7 (5 marks)**

Discuss one main cause of a Contract Sum to be changed and how one can avoid or minimize costs.

**Question 8 (15 marks)**

The Unitech United Church has engaged Wantok Construction Ltd to build a new 100 bed dormitory in Unitech Campus for its Students. All Design Documentation by the architect are completed. Explain the Building Board process before the building is constructed.

**Question 9 (10 marks)**

A Contractor of a new supermarket in Lae Downtown old airport site has encountered a major problem while doing 1.2m deep excavation for the footings. The contractor has hit an old 300mm diameter water pipe. If you were the Project Manager of the Contractor, what advice would you give to the Contractor.