



**MASENO UNIVERSITY**  
**UNIVERSITY EXAMINATIONS 2013/2014**

**THIRD YEAR FIRST SEMESTER EXAMINATIONS FOR THE  
DEGREE OF BACHELOR OF ARTS IN INTERIOR DESIGN WITH  
INFORMATION TECHNOLOGY**

**(MAIN CAMPUS)**

**ADI 303: STRUCTURES**

*Date: 19<sup>th</sup> November, 2013*

*Time: 8.30 - 10.30am*

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**INSTRUCTIONS:**

- This paper consists of TWO sections, A and B.
- Answer ALL questions from section A in the answer booklet provided.
- Answer THREE questions from section B in the answer booklet. Each question carries 10 marks.
- Begin each question on a new page in the answer booklet.

**SECTION A [40 MARKS]**

Answer ALL questions in this section in the answer booklets provided.

Q1. Define the following terms:

a) Loads (1mk)

b) Jambs (1mk)

c) Damp proof Course (1mk)

Q2. a) Identify a type of a window frame and name its parts (6marks)

b) Illustrate **two** examples of horizontal type category of structures. (6marks)

Q3. a) Provide the **four** qualities of a good external wall (4marks).

b) State **three** principal categories of internal partitions (3marks)

Q4.a) Briefly describe and sketch a good foundation for building on a sloppy site.

(5mks)

b). Illustrate and name the major parts of a roofing truss. (5marks)

Q5. a) Briefly describe **two** purposes of skirting in a space. (2mks)

b) Suggest and briefly explain **three** types of timber preservatives used against

termite attacks. (6mks).

## SECTION B [30 Marks]

### Instructions

- Question 7(seven) is **COMPULSORY**
- Attempt any other **TWO** questions from this section

Q6. Discuss the major elements you take note of during site investigations and analysis. (10marks)

Q7. Using sketches elaborate on **three (3)** types of roofs that you would recommend for a building in a tropical climate area.

(10marks)

Q8. You have been approached to advice on the different types of stairs that can be used on a space. Describe in-depth the various types of stairs that one can choose from. (10mks)

Q9. Explain the different categories of ceilings used in a structure and sketch each category discussed. (10mks)