



SLIATE

SRI LANKA INSTITUTE OF ADVANCED TECHNOLOGICAL EDUCATION

(Established in the Ministry of Higher Education, vide in Act No. 29 of 1995)

**Higher National Diploma in Technology (Agriculture)
Second Year, 2nd Semester Examination – 2015 (New)
AG2216: Building Construction and Farm Electrification**

Instructions for Candidates:

The question paper contain part 1 and part 11

**Answer all the questions in part 1 and (03) questions
from part 11**

No of pages : 04

No of Questions : 06

Time : 02(two) hours

Part-I

01

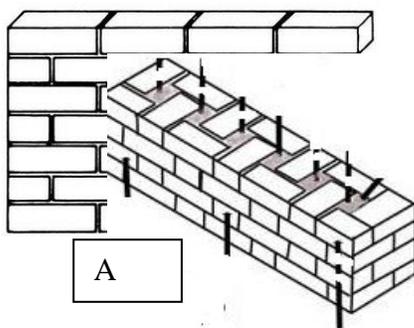
i..Name four (04) types of bricks used in building construction. (02 marks)

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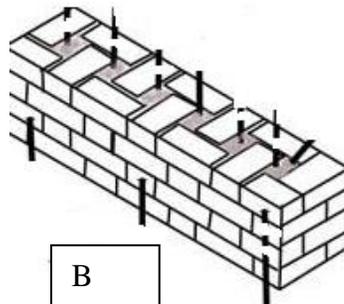
ii. State four (04) functions of building construction. (04 marks)

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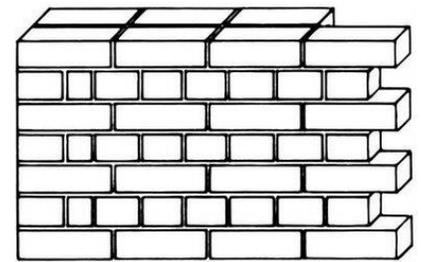
iii. Identify the following bond types. (1.5 marks)



A



B



C

A-

B.....

C.....

iv. Write five (05) main factors that should be considered before commencing construction of a building.

(05 marks)

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02.

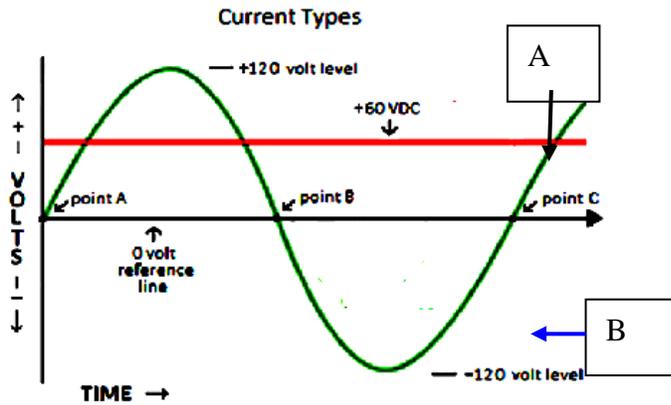
i. Name the measuring units for the followings in electricity.

(1.5 marks)

1. Voltage-
2. Current-
3. Resistance-

ii. Name two (02) types of current flowing through a circuit in the following figure.

(04 marks)

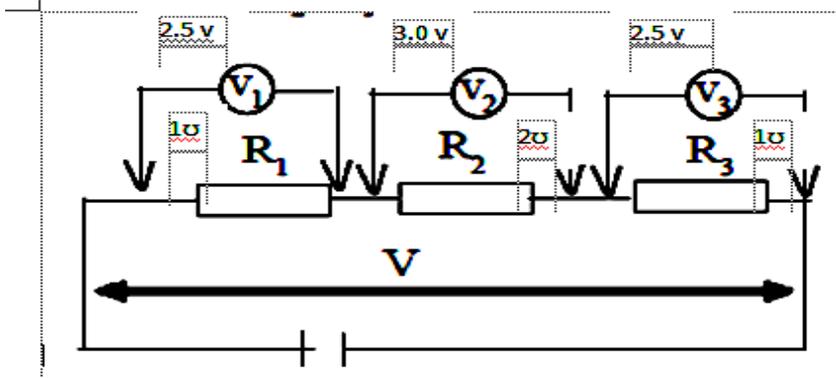


A-.....

B-.....

ii. Find the current (I) in the following circuit

(04 marks)



iii. Name three (03) types of switch circuits.

(03 marks)

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Part II

- 03.
- i. Define the term “foundation”. (03 marks)
 - ii. What are the functions of a foundation? (06 marks)
 - iii. Briefly explain the types of raft foundation. (06 marks)
 - iv. Explain the process of cement production. (10 marks)
- 04.
- i. Write short notes on the following.
 - a. Simply supported beam
 - b. Types of timber seasoning
 - c. Curing of concrete (15 marks)
 - ii. Explain the components in a sloping roof with a suitable diagram. (10 marks)
- 05.
- i. Write three (03) typical mortar mixes (03 marks)
 - ii. Write short notes on three (03) types of roof covering materials. (06 marks)
 - iii. Briefly explain slump test in concreting process. (06 marks)
 - iv. Draw the diagram/symbols of the following door types.
 - a. Ledged and battened doors
 - b. Ledged, braced and battened doors
 - c. Single leaves opening 90° door
 - d. Single leaves opening 180° door (10 marks)
- 06.
- i. What are the functions of painting? (03 marks)
 - ii. Briefly state the purpose of plastering. (06 marks)
 - iii. Briefly explain the way of coming water from the public water board into a building. (06 marks)
 - iv. Write short notes on the followings.
 - a. Wall finishes
 - b. Steel as building material (10 marks)