



<b><u>PROGRAM</u></b>	: BACHELOR OF CONSTRUCTION	
<b><u>SUBJECT</u></b>	: CONSTRUCTION TECHNOLOGY II	
<b><u>CODE</u></b>	: CTCCOY2	
<b><u>DATE</u></b>	: SUMMER SSA EXAMINATION 2019 SUPPLEMENTARY	
<b><u>DURATION</u></b>	: (SESSION )	
<b><u>WEIGHT</u></b>	: 40: 60	
<b><u>TOTAL MARKS</u></b>	: 100	
<b><u>ASSESSOR</u></b>	: BF OGUNBAYO	
<b><u>MODERATOR</u></b>	: Z MATSANE	FILE NO
<b><u>NUMBER OF PAGES</u></b>	: 4 PAGES	
<b><u>INSTRUCTIONS</u></b>	: ONLY ONE POCKET CALCULATOR PER CANDIDATE MAY BE USED.	
<b><u>REQUIREMENTS</u></b>	: ANSWER SCRIPT	

**INSTRUCTIONS TO STUDENTS**

PLEASE ANSWER ALL QUESTIONS.

**QUESTION 1**

- 1.1 What is a timber? (2)
- 1.2 Describe the usefulness of timber in buildings (2)
- 1.1 With aid of diagram describe the two typical ways log may be cut (3)
- 1.2 What are the factors to be considered in applying preservatives on timber? (4)
- 1.3 With aid of well label neat diagram described a structure of a timber (3)
- 1.4 What is timber seasoning? (2)
- 1.5 Describe the two main process of seasoning (3)

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**QUESTION2**

- 2.1 Briefly described a plan view (3)
- 2.2 What is specification? (2)
- 2.2.1 Describe the purpose of specification (3)
- 2.2.2 Highlight the type of view that construction drawing belongs (2)
- 2.3 Discuss the important of environmental management in a project (5)
- 2.4 What is the reason of carry out an amendment in a project? (3)
- 2.5 What is the different between abbreviation and symbol? (3)

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**QUESTION 3**

- 3.1 What are the qualities that some timber preservatives should have? (5)
- 3.2 State all the four distinct types of Timber preservatives (5)
- 3.3 What are the situations that decay may be prevalent in timber (4)
- 3.4. List minimum of four methods used in applying preservatives (2)
- 3.5 Write short explanation on the followings (4)
  - 3.5.1 Death watch beetle
  - 3.5.2 Common furniture beetle

**[20]**

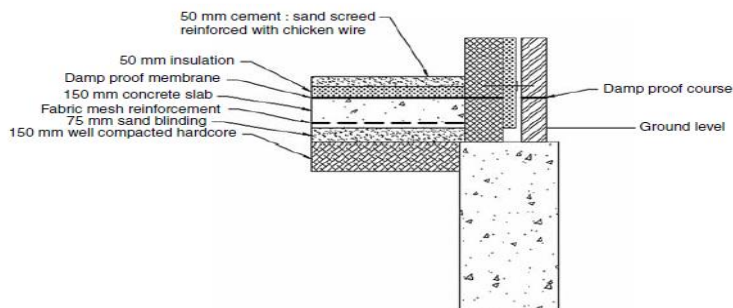
#### **QUESTION 4**

- 4.1 What are the purposes of cement, water and aggregate in concrete? (3)
- 4.2 Describe the functional requirements expected of a concrete? (6)
- 4.3 With the aid of diagram explain the four main chemical compounds in Portland cements (4)
- 4.4 List minimum of four general principle of concrete mixes design requirement (4)
- 4.5 Briefly describe the following cement types listed below (6)
- 4.5.1 Ordinary Portland cement (OPC)
  - 4.5.2 Portland blast furnace cement
  - 4.5.3 Water repellent cement
  - 4.5.4 Hydrophobic cement

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#### **QUESTION 5**

- 5.1 In which three positions can DPM be located within the floor construction? (3)
- 5.2 Describe hardcore and its method of laying (5)
- 5.3 Use the diagram below to explain DPM placement in the concrete slab (4)



- 5.4 Briefly describe timber suspended floor (3)
- 5.5 What are the functional requirements of both ground and upper floors? (3)

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**TOTAL = 100**

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