

Index Number: _____
Year Level: _____

RATU NAVULA COLLEGE
YEAR 12 TERM THREE TRIAL EXAMINATION 2020

APPLIED TECHNOLOGY

ANSWER BOOK

**HAND IN THIS ANSWER BOOK TO THE SUPERVISOR
BEFORE YOU LEAVE THE EXAMINATION ROOM**

INSTRUCTIONS

1. Write all your answers to each question in the appropriate part of this **Answer Book**.
2. Answer **all** the questions with a ball-point or ink pen. Do not use red ink. You may use pencil for sketches only.
3. If you require more paper, ask the supervisor for extra sheets. Put these inside the **Answer Book** in the appropriate place.

Marks Gained:

1.

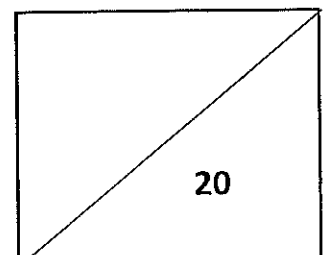
SECTION A

MULTIPLE - CHOICE QUESTIONS

(20 marks)

Circle the letter which represents the best answer

1	A	B	C	D
2	A	B	C	D
3	A	B	C	D
4	A	B	C	D
5	A	B	C	D
6	A	B	C	D
7	A	B	C	D
8	A	B	C	D
9	A	B	C	D
10	A	B	C	D
11	A	B	C	D
12	A	B	C	D
13	A	B	C	D
14	A	B	C	D
15	A	B	C	D
16	A	B	C	D
17	A	B	C	D
18	A	B	C	D
19	A	B	C	D
20	A	B	C	D



SECTION B

[60MARKS]

There are **six** questions in this section **are all compulsory**. Each question is worth **10 marks**.

QUESTION 1

BASIC HOME IMPROVEMENT

(10 marks)

a.

(2 marks)

b.

(1 mark)

c.

(2 marks)

d.

1. The combine resistance.

(1 mark)

2. The current flow.

(1 mark)

3. Power dissipated across the 5Ω resistor.

(1 mark)

3.

e. Sketch the electrical symbol of the following:

(2 marks)

I. Distribution board	II. Earth
-----------------------	-----------

QUESTION 2

FABRICATION

(10 marks)

a. The diagram below shows a tool being used to lock a joint in sheet metalwork.

(i) _____ (1 mark)

(ii) _____

_____ (1 mark)

b.

(i) _____

_____ (1 mark)

(ii) _____

_____ (1 mark)

(iii) _____

_____ (2 marks)

c.

(i) _____

_____ (1 mark)

4.

(ii)

(a) Single Hem Edge	(b) Double Hem Edge	(c) Wire Edge
---------------------	---------------------	---------------

(3 marks)

QUESTION 3

CARPENTRY

(10 marks)

a. A- _____
B- _____

(1 mark)

b. _____

(2 marks)

c. Eave Detail (4 marks)

d. i. _____

(1 mark)

5.

ii.

(1 mark)

e.

(1 mark)

QUESTION 4

WELDING

(10 marks)

(a)

(i)

(2 marks)

(ii)

(1 mark)

(iii)

(1 mark)

(iv)

(1 mark)

(v)

(1 mark)

6.

(b)

(i) _____
(1 mark)

(ii) _____

(1 mark)

(iii) _____

(1 mark)

(iv) _____

(1 mark)

QUESTION 5

JOINERY

(10 marks)

(a)

(i) _____

(2 marks)

(ii) _____

(2 marks)

(iii)
(2 marks)

7.

(b)

(i)

(2 marks)

(ii)

(2 marks)

QUESTION 6

AIR CONDITION AND REFRIGERATION

(10 marks)

(a)

i.

(1 mark)

ii.

(1 mark)

8.

(b)

(i) A- _____
B- _____
C- _____
D- _____
E- _____
F- _____

(3 marks)

(ii)

(2 marks)

(iii)

(1 mark)

(iv)

(2 marks)

9.

SECTION C -

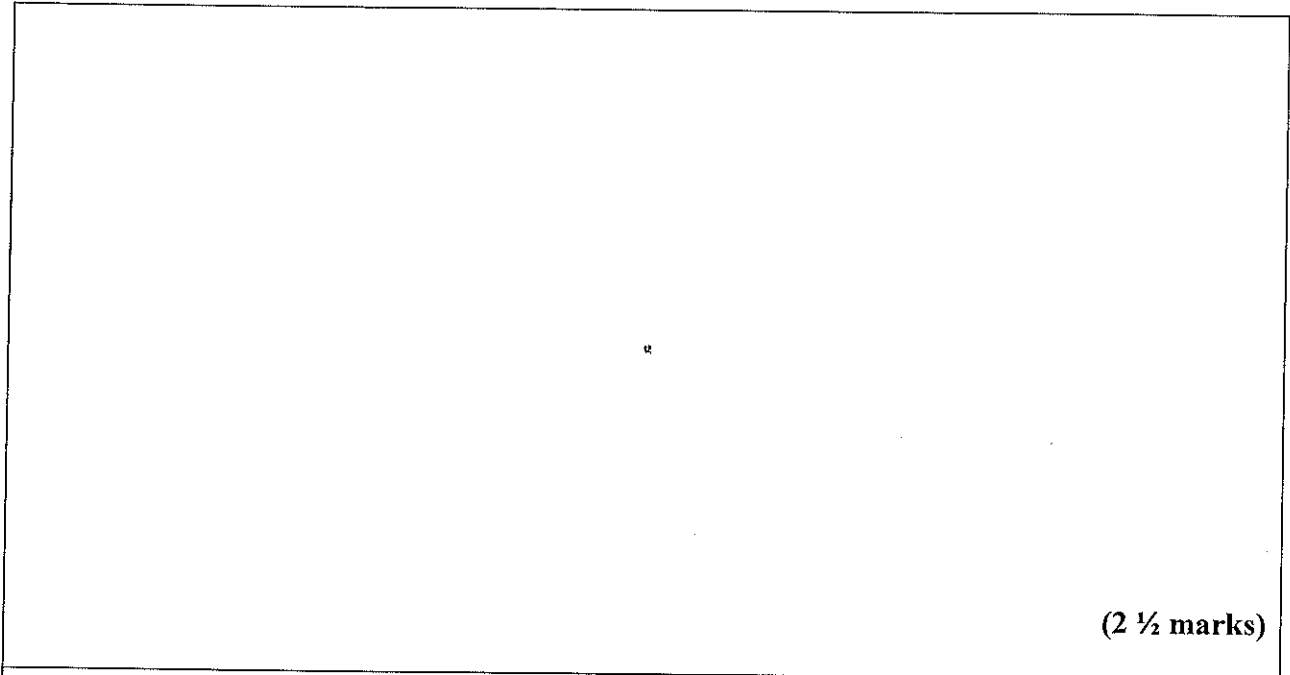
DESIGNING

(20 marks)

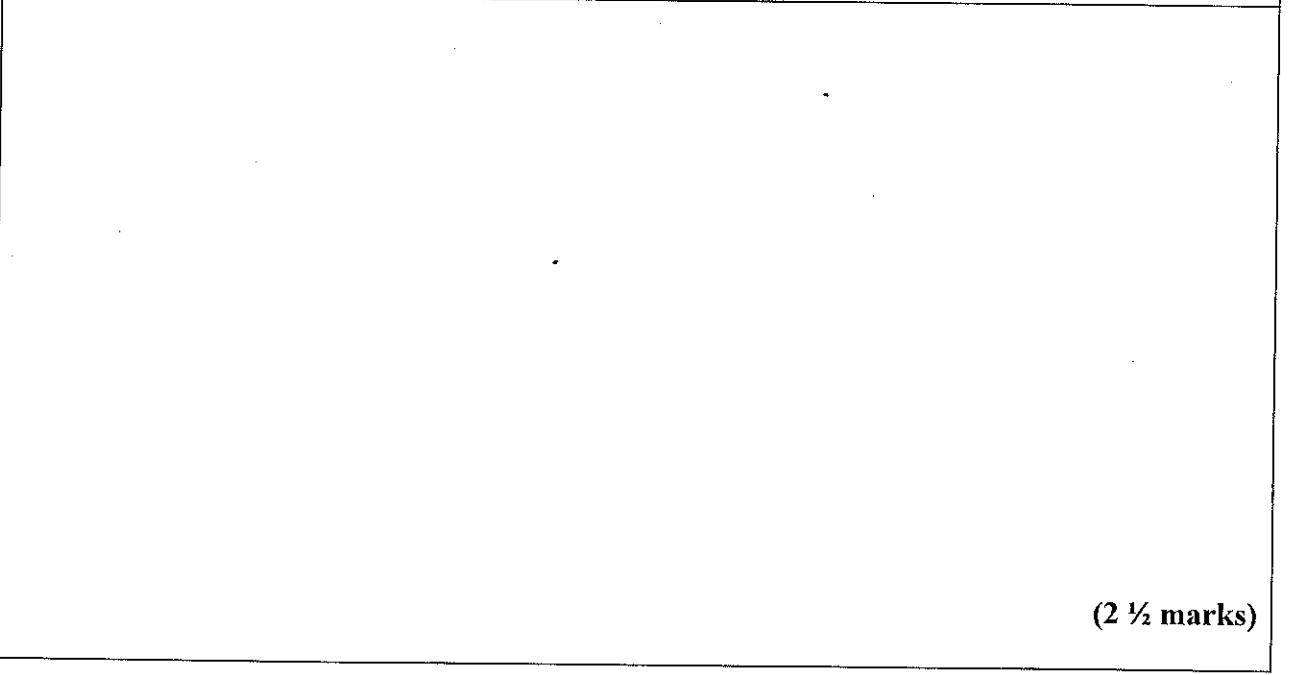
QUESTION NO.

(a) 2 Possible Solution (3-D)

(5 marks)



(2 ½ marks)

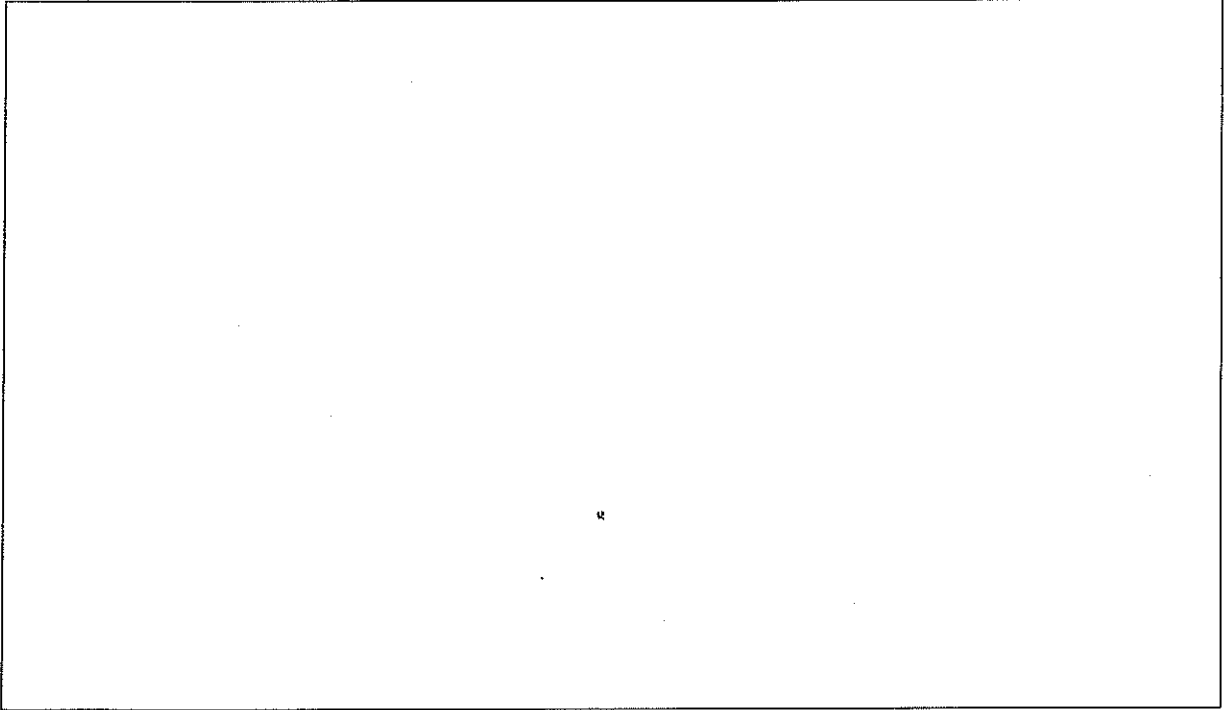


(2 ½ marks)

10.

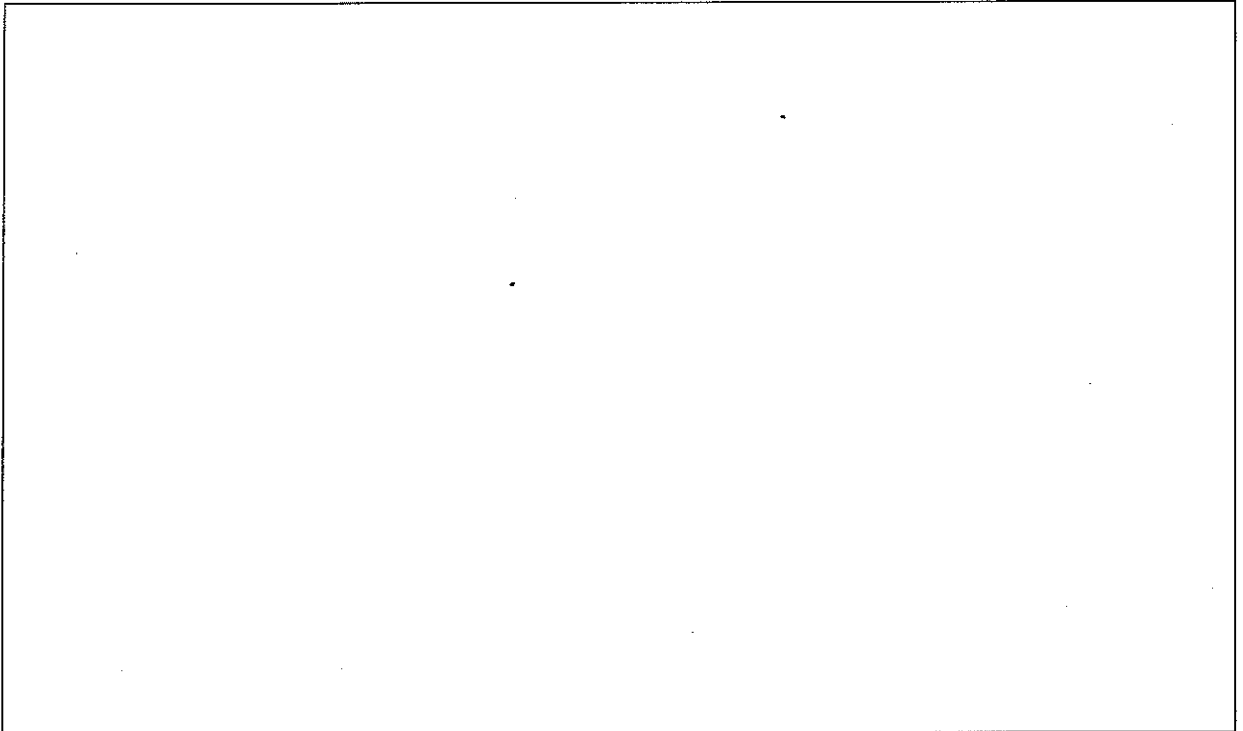
(b) Final Solution (3-D)

(4 marks)



(c) Detail Drawing (Joint)

(3 marks)



11.

(d) Material List

(2 marks)

(e) Evaluation

(6 marks)

Cost	
Functionality	
Availability of materials	