

THE 47 COUNTIES C1 SCHOOLS' JOINT NATIONAL SBA ASSESSEMENT

SENIOR SCHOOL ASSESSMENT

TERM 2: MIDTERM ASSESSMENT 2026

GRADE 10 – AVIATION 006 JUNE

Time: 2 Hours

LEARNER'S DETAILS

Name: _____ **School:** _____

Assessment Number: _____ **Date:** _____

School Code: _____ **Signature:** _____

INSTRUCTIONS TO CANDIDATES

1. Write your name in the spaces provided above.
2. Write the name of your school and your stream in the spaces provided.
3. Write your admission number and the date of the assessment in the spaces provided.
4. This paper consists of two sections: A and B.
5. Answer all questions in section A and section B.
6. Answer the questions in English.
7. All answers **MUST** be written in the spaces provided in the paper.
8. Do **NOT** remove any page from this question paper.

FOR OFFICIAL USE ONLY (EXAMINER'S USE)

SECTION	SECTION A	SECTION B	% SCORE	EE1	EE2	ME1	ME2	AE1	AE2	BE1	BE2
SCORE RANGE	30 MARKS	50 MARKS		90-100	75-89	58-74	41-57	31-40	21-30	11-20	1-10
POINTS				8 POINTS	7 POINTS	6 POINTS	5 POINTS	4 POINTS	3 POINTS	2 POINTS	1 POINT
LEARNER'S TOTAL SCORE											

SECTION A (30 MARKS)
Answer ALL questions in this section.

1. A learner is researching early aviation inventors.

a) Name the inventors of the first successful powered aircraft. _____ (1 mark)

b) State one contribution of George Cayley in aviation development. (1 mark)

_____.

c) Identify one aircraft that uses rotating blades. (1 mark)

_____.

d) State one reason why aluminum is widely used in aircraft construction. (1 mark)

e) Identify one example of a powered tool used in aviation workshops. (1 mark)

_____.

2. During an aviation technology lesson, Grade 10 learners of Mang'u Senior School were asked to define certain aviation terms

a) Define **aviation technology**. (2 marks)

b) Define **isometric drawing**. (2 marks)

3. Agnes a Grade 10 Aviation technology visited Wilson Airport for an Aircraft Parts and Functions lesson. She was asked to:-

a) Name the part of an aircraft that:

i) Provides lift. _____ (1 mark)

ii) Houses passengers and crew. _____ (1 mark)

b) State the function of:-

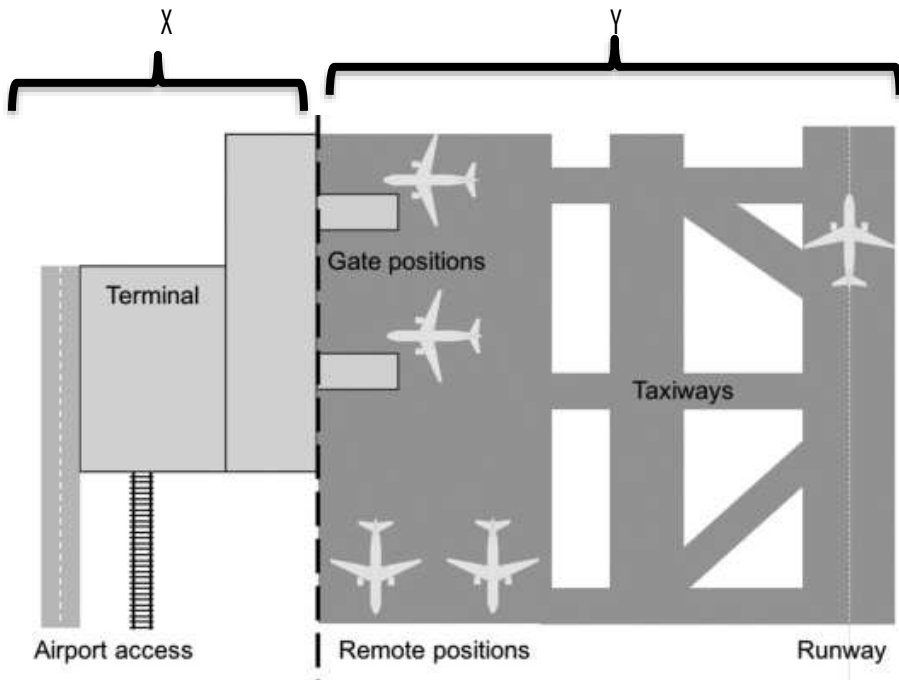
i) Empennage. (1 mark)

4. Taiswa identified types and Airport Areas

a) State two types of aircraft. (2 marks)

- i. _____.
- ii. _____.

b) Identify the following areas found in an airport. (2 marks)



X: _____.

Y: _____.

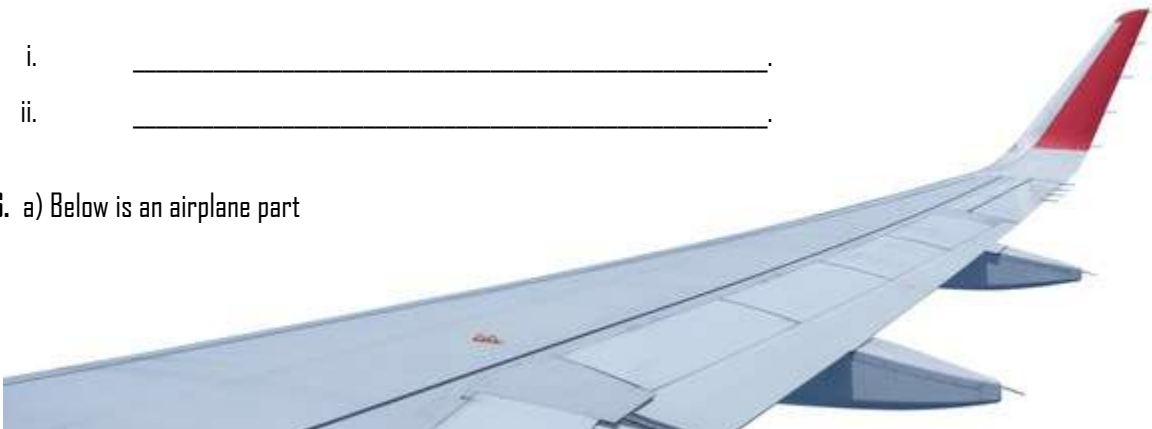
5. a) Identify two hazards commonly found in an aviation workshop. (2 marks)

- i. _____.
- ii. _____.

b) State two types of injuries that may result from these hazards. (2 marks)

- i. _____.
- ii. _____.

6. a) Below is an airplane part



What is its name? (1 mark)

_____.

b) State **two functions** of an aircraft part above. (2 marks)

i. _____.

ii. _____.

7. During an aviation safety lesson, Grade 10 learners were asked to identify Workshop Safety Rules (3 marks)

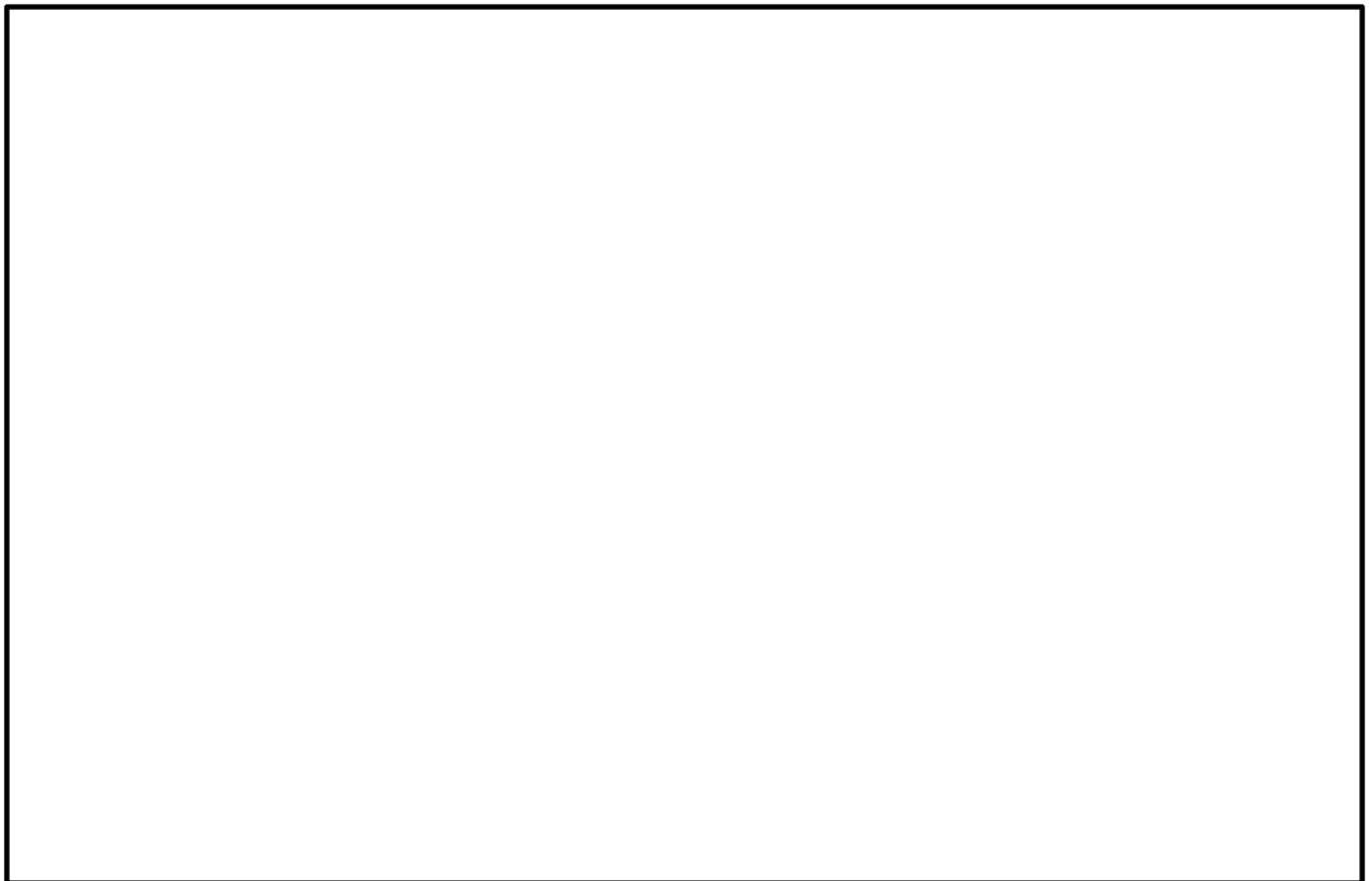
Outline **three safety rules** observed in an aviation workshop. (3 marks)

i. _____.

ii. _____.

iii. _____.

8. Draw a simple aircraft and label any three main parts. (3 marks)



SECTION B (50 MARKS)

Answer all questions provided in this section.

9. During an educational visit to an aviation museum in Nairobi, learners observed the evolution of aircraft:

Balloon → Glider → Fixed-wing aircraft → Helicopter

a) Describe **one characteristic** of each stage of development. (4 marks)

		Characteristic
i	Hot air Balloon	
ii	Glider	
iii	Fixed wing aircraft	
iv	Helicopter	

b) Explain the contributions of:

i) Montgolfier brothers (2 marks)

- i. _____.
- ii. _____.

ii) Wright brothers (2 marks)

- i. _____.
- ii. _____.

c) Classify the aircraft above into:

- i. Heavier-than-air
- ii. Lighter-than-air (2 marks)

	Heavier than air	Lighter than air
i		
ii		
iii		
iv		

10. A trainee pilot is studying the structure of an aircraft.

a) Identify **four main parts** of an aircraft. (4 marks)

- i. _____.

b) Explain the function of each part identified in (a). (4 marks)

	Part	Function
i		
ii		
iii		
iv		

c) Explain how these parts contribute to **flight stability and movement**. (2 marks)

- i. _____.
- ii. _____.

11. During training at a local aerodrome, a technician suffered an **electric shock** while using a faulty tool.

a) Classify the injury sustained. _____. (2 marks)

b) Describe **three first aid procedures** for a victim of electric shock. (6 marks)

- i. _____.
- ii. _____.
- iii. _____.

c) Explain **two safety precautions** that could have prevented the incident. (2 marks)

- i. _____.
- ii. _____.

12. Learners are constructing a model aircraft in a workshop.

a) Classify the following tools:

- i. Electric drill
- ii. Hammer
- iii. Spanner

i) Powered tools _____. (1 mark)

b) Explain **three safety precautions** when using workshop tools. (3 marks)

- i. _____
- ii. _____
- iii. _____

c) Describe **two properties of materials** used in aircraft construction. (2 marks)

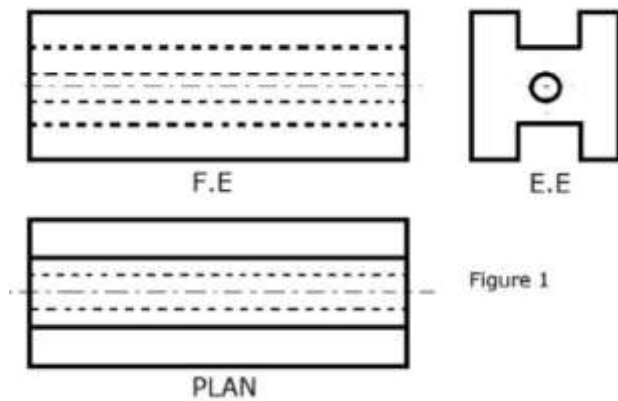
- i. _____
- ii. _____

d) Explain **two methods of maintaining tools**. (2 marks)

- i. _____
- ii. _____

13. A student is required to represent an aircraft component using isometric projection.

(a) The figure below shows three views of a longitudinal beam of an aircraft fuselage drawn in first projection. Sketch in good proportion an isometric drawing of the beam. (2 marks)



b) State **two characteristics** of isometric drawings. (2 marks)

- i. _____.
- ii. _____.

c) Describe **three steps** used in constructing an isometric drawing. (6 marks)

- i. _____.
- ii. _____.
- iii. _____.

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