

MASENO SCHOOL MOCK - 2022

Kenya Certificate of Secondary Education



450/2

Paper 2

AVIATION TECHNOLOGY Sept. 2022 - 2½ hours

Name						Adn	nission	Numbe	er		
Class	•••••				MAS		andidat	e's Sigi	nature.		
Instruction	ons to car	ndidates	1	2022			SCH)_			
a) Write	your nan	ne and a	dmission	n numbe	er in the	spaces	provided	l above.			
	your clas										
c) This p	aper con	sists of t	hree sec	tions: A ,	, B and C		_	,	C		
d) There	are ten	stations	in this e	xamina	tion				M		
e) Candi	dates are	e allowe	d 15 mii	nutes at	each sta	ation			0		
f) Candi	dates are	not all	owed to	review	the prev	vious sta	ations w	ork or r	ead inst	truction	s for
other	stations	2	- 1						×	zi.	
g) Write	your na	me and i	index nu	ımber o	n all pro	ojects			5	>	
h) Attem	pt all ex	ercises i	n each s	tation					Ö	ם בו	
i) All dir	nension	are in 1	millimet	ers unle	ess other	rwise st	ated.		N	ולה נאור	
j) Candi	dates sh	ould che	ck and o	confirm	that all	pages a	re well p	orinted a	as indica	ated	
		63					_		8		
		2		For	Examin	ier's Us	e Only		2		
		B			PERSEVE	RANCE	Н		00		
Stations	1	2	V3700	4	5	6	7	8011	9	10	TOTAL
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Marks				COS (RENC	AIN S	3087				

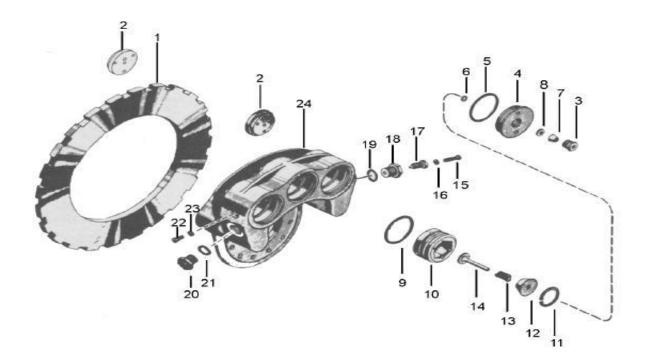
INSTRUCTION

(a) Figure below show parts of a single disc brake system.

In the space provided, sketch in good proportion assembled diagram of the system.

(7marks)

(b) Label six parts (3marks)

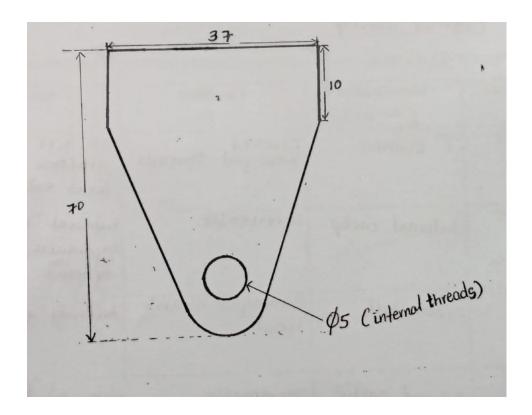


STATION 2



INSTRUCTIONS

Using the tools, equipment and material provided make the drive key as shown in figure 2. (10marks)



STATION 3

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(a) Study and identify the components labelled as:	(2marks)
Q	



W			
Z			
O			
(b) Descri	ibe the condition of the comp	onent and state where its ap	plicable. (4marks)
Part	Identification	Condition	Application
Q			
W			
Z			
0			
(c) State t	the remedy action to be taken	on component labeled:	(2marks)
part	Remedy action		
Q			
Z			
(d) Sketch	h and label 2 parts of compon	ent O.	(2marks)



INSTRUCTIONS



(REST STATION)

STATION 5

INSTRUCTIONS

Carry out visual inspection of the aircraft tyre provided and do the following:

(a) Identify four manufacturers specification and state the meaning of each: (4marks)

	Specification	Meaning
Ι		



) Ide ntii	fy two rejection criteri	a of the aircraft tyre.	(2marks)
•••••	•••••		•••••
•••••	•••••		••••••
Explai	n the cause of your an	swer in (h)	(1mark)
Длріш	if the cause of your an	swer in (o).	(Imark)
•••••	••••••		••••••
•••••	•••••		••••••
) State t	he type of material use	ed to make the aircraft type.	(1mark)
	•••••		
•••••			
Name	the two markings labe	eled as R and S and state the importa	ance of each during aircraft
	the two markings labe	eled as R and S and state the importa	ance of each during aircraft (2marks)
	enance.		
		eled as R and S and state the importation importance	
	enance.		
mainte	enance.		
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I	enance.		
,	Explai	Explain the cause of your an	Identify two rejection criteria of the aircraft tyre. Explain the cause of your answer in (b). State the type of material used to make the aircraft type.



INSTRUCTIONS

The system components labelled M to Q are defective. in the table below record each component the name ,the defect and method of rectification (10 marks)

Item	Name	Defect	Method Of Rectification
M			



N		
0		
P		
Q		
		

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IO.		\cup \cup	-1	. 1	U	٠ν.	C

(a) Name the tools labeled as and P.	(2marks)
(b) State the maintenance practice to be carried out on the each of the to	ool named above. (2marks)
(c) Identify the locking mechanism displayed in the picture below.	(1mark)





(d) Using the tools and materials provided practice the locking method illustrated in the picture above and let the examiner check your work. (5marks)

STATION 8

INSTRUCTIONS

Study the instruments and components provided and answer the questions below.

(a) I) Make a well cross section labelled diagram of the instrument provided labelled as K. (4marks)

ii) State the principle of operation of K.

(1mark)



(b) Identify the components labeled 1 and 2 then state the function of each. (2marks)

Component	Name	Function
1		
2		

(c) Sketch compo	onent 2 and label 2 parts.	(2marks)
\ /	1	,

(d) State the principle of operation of component labelled 2. (1ma)	(1mark).
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INSTRUCTIONS

11/01	RUCTIONS		
(a	Identify the type of airc	craft material labeled as:	(4marks)
i)	1		
ii)	2		
iii) 3		
iv) 4		
,) State where the materi	al labelled as 3 and 4 are applied.	(2marks)
4			
(c) labele	-	provided, identify the type of material suit	table to construct the parts
	(4marks)		

part	name	Material
X		



Y	
Z	
P	

INSTRUCTIONS

(a) Identify the type of tools labeled X and Y then state their functions. (2marks)

Tool	Name	Function
X		
Y		

(b) Using the tools and material provided strip the wire end labelled 1each part at 10mm.

(3marks)

(c) In the spaces provided below illustrate the drawing of the stripped end and label parts of the cable. (2marks)



(d) Identify the type of cable. (1n	(1mark)
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(e) State the area of application of the cable. (2marks)

