2107/308
AIRFIELD AND SAFETY PROCEDURES
Oct./Nov. 2005
Time: 3 hours

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THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN AERONAUTICAL ENGINEERING (AIRFRAMES AND ENGINES OPTION)

AIRFIELD AND SAFETY PROCEDURES

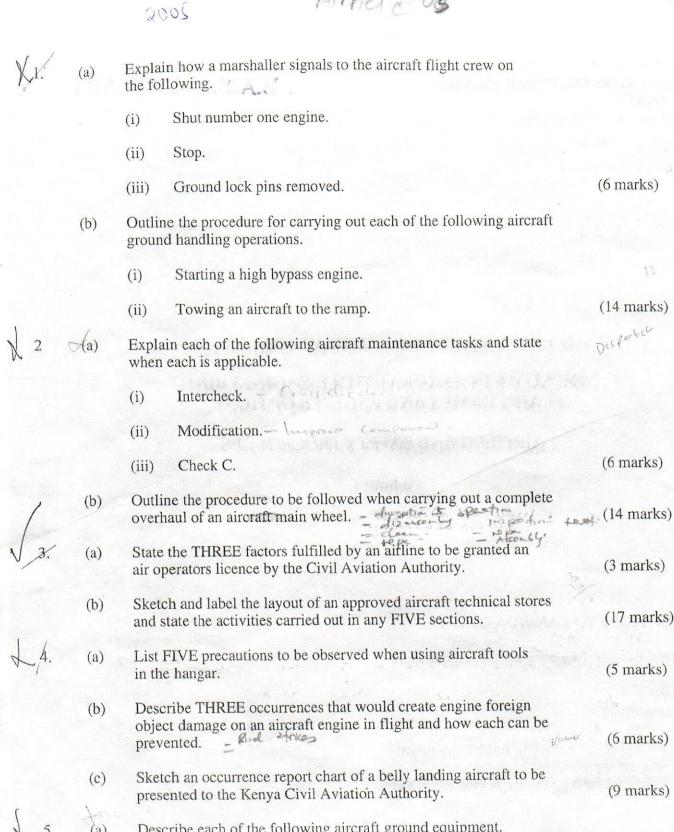
3 hours

INSTRUCTIONS TO CANDIDATES:

You should have the following for this examination.

Answer booklet
Drawing instruments

Answer any FIVE of the following EIGHT questions. All questions carry equal marks. Maximum marks for each part of a question are as shown.



Describe each of the following aircraft ground equipment.

- (i) Gang tray.
- (ii) Hoist tugmaster.
- Hydraulic rig. (iii)

(6 marks)

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	(b)	Explain the difference in identification between each of the following aircraft ground equipment bottles.				
			(i)	Acetylene and oxygen.		
			(ii)	Carbon dioxide and nitrogen.		
			(iii)	Freon and helium.	(6 marks)	
	(c)		Outline any FOUR proper care and maintenance of the following craft ground equipment.			
			(i)	Jacks.		
			(ii)	Docks and steps.	(8 marks)	
	(a)		Expla	in the classification of an aircraft by the help of a line diagram.	(6 marks)	
	(b)		Outlin	ne the roles of each of the following aircraft personnel.	North of	
			(i)	Captain.	6.16.01. T	
			(ii)	Flight engineer.		
			(iii)	Navigator.	(6 marks)	
	(c)		List tl	he conditions of each of the following aircraft certificates.		
			(i)	Airworthiness.		
			(ii)	Validity/Fitness for flight.	(8 marks)	
	(a)		List a	any FIVE minimum rescue equipment carried on an aircraft.	(5 marks)	
	(b)		Descra	ribe any THREE procedures for gaining access to a crashed aft.	(6 marks)	
1	(c)		With the aid of a flow diagram explain the mandatory service bulletin of escape routing on a modern aircraft.		(9 marks)	
	(a)			ribe any THREE methods used to lower the noise level on aft engines.	(6 marks)	
	(b)		(i)	Outline the precautions to be observed in the hangar for the prevention of accidents.	<u>;</u>	
			(ii)	Sketch the layout of a modern aircraft hangar and state the activity of at least FIVE sections.	(14 marks)	