

Air Navigation & Flight Planning

Microlight Pilot Certificate Examination

Sport
Aviation
Corp Ltd

Question Booklet

Sample Examination

Sport Aviation Corp Ltd

A CAA Certified Part 149 Organisation

www.sportflying.co.nz

Introduction

- Time Suggested:** One Hour
- Questions:** 15 multiple choice
- Pass Standard:** 70% (11 correct answers)
- Special Instructions:** Questions contained in this examination do not require you to read or interpret 'special messages' identified on the Visual Navigation Chart. Please confirm the map scale prior to measuring distances

This exam contains 15 questions and has a recommended sitting time of 1 hour. The actual qualifying exam has 20 multiple choice questions and a maximum time of 1 hour, 15 minutes

Required Resources:

Calculator, 1:250,000 scale ruler, and Protractor; a non-electronic E6B Navigation computer is optional. An AIP New Zealand Volume IV may be referred to at any time during this exam.

Appendices:

The following appendices are included at the rear of the Answer Booklet and should be used to assist answering questions in this examination. You may write on the Appendices, but must return them with the Examination and Answer Booklets at the end of the examination.

Appendix A: VFR Flight Planning Sheet

Appendix B: Visual Navigation Chart C3 Auckland [Extract]

Today's Flight:

- ✓ You will be flying from Te Kowhai (NZTE) to Matamata (NZMA), then to Thames (NZTH)
- ✓ You hold a valid S.A.C. Part 149 Advanced Pilot Microlight Certificate with a Passenger Rating. You also hold a FRTO certificate.
- ✓ Your aircraft is a 'Crusader 500 STOL', which has a cruise speed of 75 knots
- ✓ The following is already included on your flight plan in Appendix A... The forecast wind obtained from MetFlight is 120°T at 10 knots. Magnetic Variation in the Waikato region is 20° East. You should plan to carry at least 30 minutes of reserve fuel, and should also allow 15 minutes at normal cruise consumption for taxi, run-ups and circuit joining etc. Your compass has 3°W of deviation in its readings

Examination Questions

1. What is the True Track from Te Kowhai to Matamata?

- A) 068°
- B) 092°
- C) 088°
- D) 272°

2. What is the True Heading from Matamata to Thames?

- A) 010°
- B) 330°
- C) 340°
- D) 350°

3. What is the Compass Heading from Matamata to Thames?

- A) 007°
- B) 013°
- C) 333°
- D) 353°

4. What is the Distance from Te Kowhai to Matamata?

- A) 28nm
- B) 32nm
- C) 56nm
- D) 64nm

5. What is the Groundspeed from Te Kowhai to Matamata?

- A) 62 knots
- B) 67 knots
- C) 75 knots
- D) 83 knots

6. What is the Estimated Elapsed Time from Matamata to Thames?

- A) 27 minutes
- B) 29 minutes
- C) 32 minutes
- D) 53 minutes

7. You plan to carry enough fuel for a reserve of 30 minutes, in addition to allowing 15 minutes at cruise consumption for taxiing and circuits. Rate of consumption is 18 litres per hour. How much fuel is required for this flight?

- A) 12 litres
- B) 16 litres
- C) 29 litres
- D) 35 litres

8. Using the following information about the weight limitations of your aircraft, how much weight can you put in the baggage locker on today's flight?

A/C Empty: 325kg	MAUW: 544kg
Your weight: 75kg	Your Passenger: 85kg
Baggage Locker Capacity: 12kg	Fuel: 45 litres @ 0.72kg/litre

- A) None, the aircraft will already be at maximum all up weight
- B) 12kg
- C) 14kg
- D) 26kg

9. Your track from Te Kowhai to Matamata takes you in to the Northern Sector Transit Lane. What is the maximum height you may operate in this airspace without needing to obtain a clearance from Hamilton Tower?

- A) This area is controlled airspace
- B) 1,000 feet AMSL
- C) 1,500 feet AMSL
- D) 2,500 feet AMSL

10. Once clear of the Northern Sector Transit Lane to the east on track to Matamata, what is the legal minimum height you could fly at?

- A) 500 feet AMSL
- B) 800 feet AMSL
- C) 1,300 feet AMSL
- D) 2,500 feet AMSL

11. After leaving Te Kowhai and heading towards Matamata, about halfway through the flight, you place yourself overhead Motumaoho, to the north of your intended track. What will be the required compass heading to Matamata?

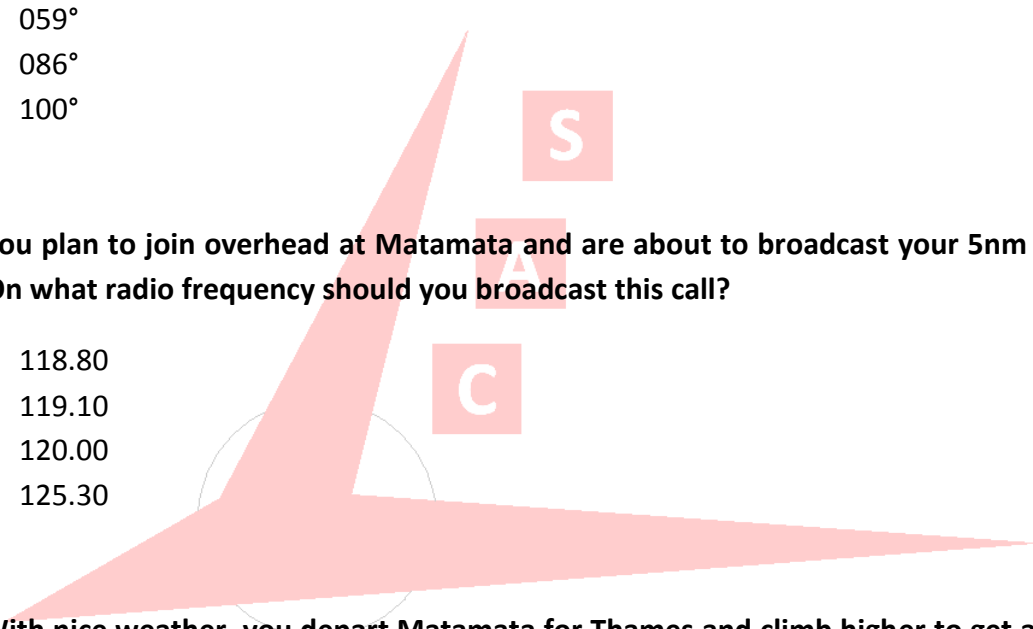
- A) 047°
- B) 059°
- C) 086°
- D) 100°

12. You plan to join overhead at Matamata and are about to broadcast your 5nm joining call. On what radio frequency should you broadcast this call?

- A) 118.80
- B) 119.10
- C) 120.00
- D) 125.30

13. With nice weather, you depart Matamata for Thames and climb higher to get a better view. At which of the following heights could you fly from Matamata to Thames?

- A) 3,500 feet AMSL
- B) 4,000 feet AMSL
- C) 4,500 feet AMSL
- D) 5,000 feet AMSL

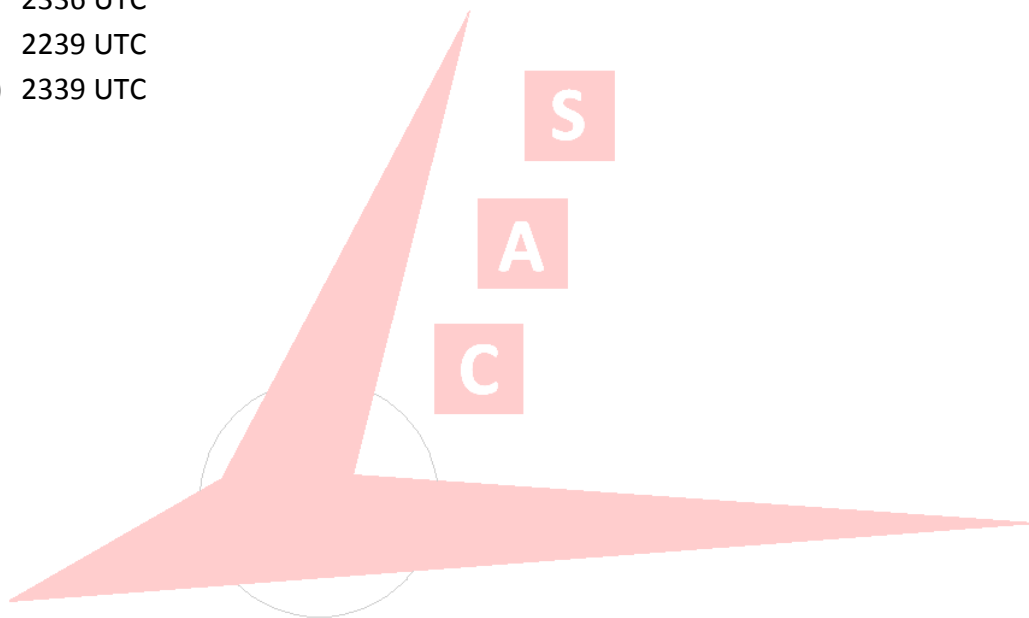


14. After leaving for Thames, your engine develops a magneto problem and you decide to return to Matamata. What Compass Heading should you steer to return to Matamata?

- A) 143°
- B) 153°
- C) 163°
- D) 170°

15. With the magneto problem fixed, you leave Matamata at 1109 NZDT. At 1124 NZDT you place yourself overhead Tirohia, about halfway between Matamata and Thames. At what time would you expect to arrive at Thames?

- A) 1136 NZDT
- B) 2336 UTC
- C) 2239 UTC
- D) 2339 UTC



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Instructions

Please read the following instructions and sign below before commencing the examination. Time taken completing this page is not included in the allocated time for the examination.

This exam contains 15 questions and has a recommended sitting time of 1 hour. The actual qualifying exam has 20 multiple choice questions and a maximum time of 1 hour, 15 minutes

The suggested sitting time is fifty minutes. There is no additional reading time allocated at the start of the examination.

Applicants should answer all fifteen questions. All questions are 'multiple choice'. Read the question and select the correct answer. Indicate your choice of answer by placing a ✖ in the appropriate box on the next page of this Answer Booklet.

Please use a blue or black ink pen. The required pass standard is 70% which requires you to correctly answer at least 11 questions. Applicants will be notified of their result in writing.

At the end of this examination, please hand this completed Answer Booklet, including all appendices with your Examination Question Booklet to the supervisor. Please do not mark or write on the Examination Question Booklet. Failure to return all these documents will result in your examination grade being withheld. The Examination Question Booklet and Answer Booklet are the property of Sport Aviation Corp Limited, and are protected by copyright.

During this examination, you may not communicate with any other persons except the examination supervisor, copy from another applicant, refer to unauthorised material, or remove any examination material from this room. You may refer to an AIP NZ Volume IV at any time during this examination.

By signing below, you agree to abide by the examination instructions detailed above. It is an offence to breach these instructions under CAR Part 61.19 and sanctions are enforceable for such breaches.

Signature: _____

Date: _____

Answer Sheet

	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>
Question One	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Question Two	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Question Three	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Question Four	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Question Five	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Question Six	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Question Seven	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Question Eight	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Question Nine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Question Ten	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Question Eleven	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Question Twelve	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Question Thirteen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Question Fourteen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Question Fifteen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Question Sixteen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Question Seventeen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Question Eighteen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Question Nineteen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Question Twenty	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Administration Use

Name: _____

Client ID: _____

Examination Subject: _____

Navigation

Paper Version: _____

Sample

Marker's Name: _____

Answers Correct:

Percentage:

Result:

PASS

RE-SIT

Appendix A: VFR Flight Planning Sheet

Leg	From	To	T Track	TAS	Wind	T Hdg	G/S	Var	M Hdg	Dev	COMP HDG	Dist	EET
1	TeKowhai	Matamata		75	120°T / 10			20° E		3° W			
2	Matamata	Thames		75	120°T / 10			20° E		3° W			

Leg	En Route Information
1	
2	
3	
4	
5	
6	
7	
8	

Fuel Management	
Total EET	
Taxi & Circuit Time	0:15
Reserve	0:30
Total Time	
Consumption (ltrs/hr)	18
Fuel Required (ltrs)	
Fuel Carried (ltrs)	
Endurance (hr:min)	

Appendix B: Visual Navigation Chart C3 Auckland [Extract]

An A3 sized, correctly scaled extract will be provided for the actual exam

