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Senior Level Seamanship, 2007

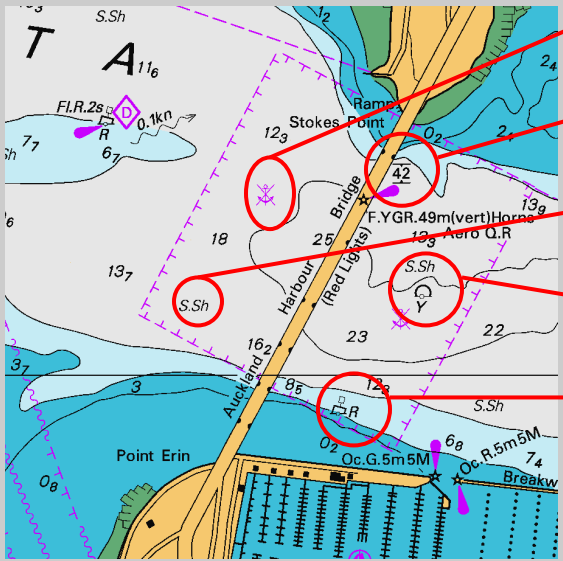
Teams should answer ALL the questions in this exam paper.

Team Details	
Group Name	
Names of Team Members	
Teams consist of up to four youth members aged between 15½ and 19 years old	

<i>For Assessor's use only</i>	Achievement Criteria	
Achievement	Achievement with Merit	Achievement with Excellence
Team's score over 50 marks out of 100	Team's score over 70 marks out of 100	Team's score over 85 marks out of 100

Unit 1 The Boat		
<p>Name these parts of boat:</p> 	<ol style="list-style-type: none"> 1. 2. 3. 4. 5. <p style="text-align: right;">5 marks</p>	
<p>Name these parts of an oar:</p> 	<ol style="list-style-type: none"> 1. 2. 3. <p style="text-align: right;">3 marks</p>	
<p>In clinker boat construction, the first plank and last plank have distinctive names. What are the names of these two planks?</p> 	<ol style="list-style-type: none"> 1. 2. . <p style="text-align: right;">2 marks</p>	
<p>The Scout Water Activity Rules specify equipment that must be carried in Scout vessels. List the all the loose equipment that must be carried in a Sea Scout cutter when rowing (not including PFDs).</p>	<ol style="list-style-type: none"> 1. 2. 3. 4. 5. 6. <p style="text-align: right;">6 marks</p>	

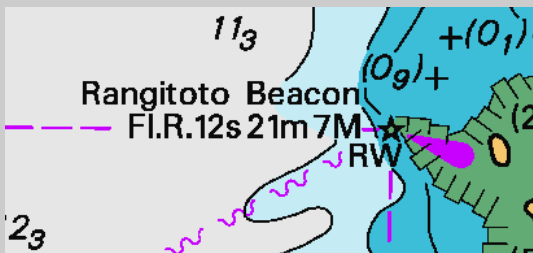
<p>Name the following parts of the sail:</p> 	<ol style="list-style-type: none"> 1. 2. 3. 4. <p style="text-align: right;">4 marks</p>
<p>How many PFDs are required to be carried in a boat?</p>	<p style="text-align: right;">1 mark</p>
<p>Sea Scout cutters carry an anchor. How long is the anchor warp?</p>	<p style="text-align: right;">1 mark</p>
<p>If the pintles break and rudder falls off, indicate how a jury rudder may be rigged?</p>	<p style="text-align: right;">1 mark</p>
<p>How many bailers must be carried in a Scout cutter? What capacity must they be?</p>	<ol style="list-style-type: none"> 1. 2. <p style="text-align: right;">2 marks</p>

<h3>Unit 2 Navigation</h3>	
<p>Identify these chart symbols:</p> 	<ol style="list-style-type: none"> 1. 2. 3. 4. 5. <p style="text-align: right;">5 marks</p>
<p>Where can variation, the angle between true and magnetic north, be found on a chart?</p>	<p style="text-align: right;">1 mark</p>

What items should be kept away from a boat's compass

1 mark

Decode all the text under Rangitoto Beacon.



Fl.

6 marks

R.

12s

21m

7M

RW

Use the extract of Auckland's tides for March 2007

2 marks

What are the NZDT times and heights of low and high water on Saturday 10 March?

AUCKLAND								
Lat. 36° 51' S Long. 174° 46' E								
MARCH 2007								
TIME ZONE: -1200		TIMES AND HEIGHTS OF HIGH AND LOW WATER						
	Time	m	Time	m	Time	m		
1	0518	2.9	9	0427	0.8	17	0530	3.0
	1127	1.0		1051	3.0		1132	0.8
	1742	2.8		1651	0.8		1752	3.0
	2349	0.8		2315	2.9		2359	0.7
2	0612	3.0	10	0507	0.9	18	0623	3.2
	1220	0.9		1128	2.9		1226	0.6
	1837	2.9		1729	0.8		1848	3.2
				2354	2.8			

Time Height

HW

LW

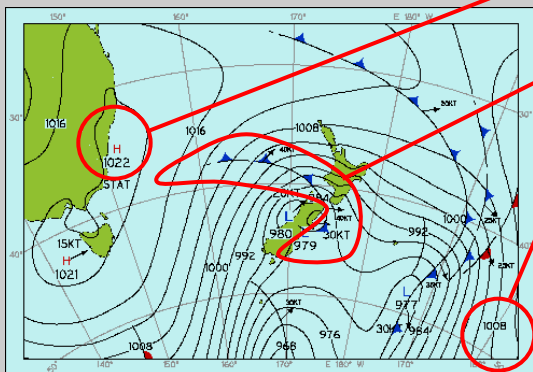
HW

LW

This is a sea level weather map for 1300 NZDT 14 Feb 07.

3 marks

Identify the marked features:



1.

2.

3.

Using the weather map above, what direction is the wind affecting Auckland?

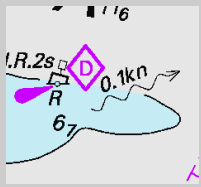
2 marks

What direction will the wind change to in 24 hours?

1.

2.

The following tidal diamond appears on chart NZ 5322 *Auckland Harbour*.



Using the tide table above and the tidal stream information below, what is the direction and speed of the tidal stream at 1730 NZDT Saturday 10 March?

Tidal Streams referred to HW at AUCKLAND

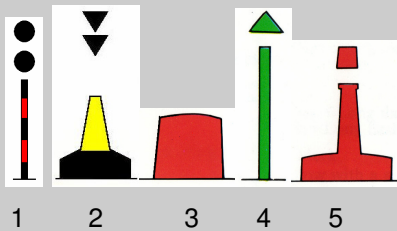
	A 36°50'.08S 174 48 .58E	B 36°49'.95S 174 46 .70E	C 36°49'.87S 174 46 .87E	D 36°49'.75S 174 44 .37E
-6	235 0.7 0.5	265 0.4 0.2	240 0.4 0.3	053 0.2 0.1
-5	262 0.5 0.4	265 0.5 0.3	270 0.5 0.3	241 0.3 0.2
-4	237 0.4 0.3	270 0.7 0.4	280 0.3 0.2	267 1.0 0.7
-3	224 0.3 0.2	275 0.8 0.5	320 0.3 0.2	269 1.5 1.0
-2	212 0.2 0.2	260 0.9 0.5	305 0.3 0.2	269 1.6 1.1
-1	126 0.1 0.1	260 0.5 0.3	265 0.4 0.2	255 1.1 0.8
0	053 0.5 0.4	250 0.2 0.1	305 0.0 0.0	109 0.1 0.0
+1	062 1.6 1.2	080 0.7 0.5	090 0.6 0.4	085 0.5 0.4
+2	053 1.3 0.9	080 1.2 0.7	095 0.5 0.4	089 1.4 0.9
+3	048 0.8 0.6	090 1.1 0.7	090 0.4 0.3	088 1.5 1.0
+4	267 0.2 0.2	085 0.6 0.4	085 0.3 0.2	087 1.1 0.8
+5	229 0.6 0.4	085 0.2 0.1	220 0.1 0.1	094 0.6 0.4
+6	235 0.7 0.5	265 0.1 0.1	225 0.3 0.2	071 0.2 0.1

Direction

3 marks

Speed

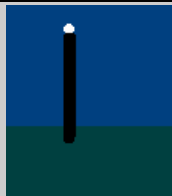
At night, what light signals would you expect to see from these buoys and beacons:



- 1.
- 2.
- 3.
- 4.
- 5.

5 marks

You are heading south and observe this beacon ahead with the white light flashing quickly three times every 10 seconds.



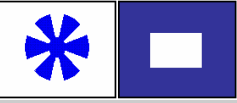




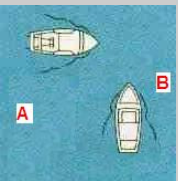
Should you alter course to port or starboard or remain on the same course?

2 marks

Unit 3 Rules and Regulations

When do the International Sailing Federation race rules start applying in a yacht race?



1 mark

<p>You hear one blast from the race start boat's whistle and see the following flags.</p> <p>How many minutes remain until the Sunburst start whistle?</p>  <p>Honk</p>	<p>1 mark</p>
<p>You hear one long blast from the race start boat's whistle and see the following flag.</p>  <p>Hooooonk</p> <p>How many minutes remain until the Cutter race start whistle?</p> <p>You hear one short blast from the race start boat's whistle and see the following flag.</p>  <p>Honk</p> <p>How many minutes remain from the Cutter race start whistle</p>	<p>2 marks</p> <p>1.</p> <p>2.</p>
<p>You hear two short blasts from the race start boat's whistle and see the following flag.</p> <p>What does this mean?</p>  <p>Honk Honk</p>	<p>1 mark</p>
<p>A sailing vessel is approaching a fishing vessel.</p> <p>Indicate which vessel has right of way.</p> 	<p>1 mark</p>
<p>Vessel A and B are power driven vessels.</p> <p>Indicate which vessel must give way.</p> 	<p>1 mark</p>

Give two examples where PFDs must be worn during Scout boating activities.	1. 2.	1 mark
You are out sailing in a Scout cutter in Group training area. There is no adult or charge certificate holder in the boat and the weather gets too rough to keep sailing. Describe three options for getting safely home.		3 marks

Unit 4 Emergencies		
Describe two methods you could use to raise the alarm during an emergency when out in a Scout cutter using the equipment and crew usually found in a cutter.	1. 2.	2 marks
What does E.P.I.R.B stand for?	E. P. I. R. B.	2 marks
What are the three "W"s of a Coastguard two minute form?	1. 2. 3.	3 marks
You are the leader of a sailing expedition as part of your Young NZ's Duke of Edinburgh's Gold Award. There are five Venturers with you The keeler you are sailing in, <i>Cloudy Bay ZMV 1256</i> , runs aground off Flat Rock and begins to take on water. The owner of the vessel has been knocked unconscious while trying to repair the damage. He was the only person with a VHF operator's license. The yacht is drifting south and is currently 2.5 miles south west of Kawau Point. In this situation, are you allowed to use the VHF radio even if you are unqualified to do so? If you believe you can use VHF radio, draft your message.	Permitted to use the radio Yes / No Message:	5 marks

<p>Which of these symptoms is not caused by hypothermia:</p> <ul style="list-style-type: none"> a. irrational behaviour b. intense shivering c. body arched backwards d. loss of co-ordination e. unconsciousness 	1 mark
<p>You are floating in the water. Which method will delay the onset of hypothermia:</p> <ul style="list-style-type: none"> a. treading water b. swimming vigorously c. taking off the outer layers of clothing so you float higher d. floating with a lifejacket 	1 mark
<p>To treat a hypothermic victim you should:</p> <ul style="list-style-type: none"> a. keep the patient moving b. immediately apply CPR c. apply warmth to the patients arms and legs d. give the patient a stiff brandy e. apply warmth to the person's chest and head 	1 mark

Unit 5 Knots		
<p>Identify this knot: Describe what this knot is used for?</p>		2 marks
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Identify this knot:

Describe what this knot is used for?



2 marks

Unit 6 Ceremonial

Where are these New Zealand ensigns entitled to be flown?

4 marks



1.



2.



3.



4.



5.



6.