



ISA Dinghy Instructor Pre Entry Paper 3

SAIL THEORY

1. Using diagrams identify the centre of effort and the centre of lateral resistance.

2. Describe the main key points to achieving a successful tack.

3. In relation to the 5 essentials explain “course made good”?

4. In what order should you adjust your secondary controls:
Kicker/Cunningham/Outhaul.?

5. In moderate winds explain how to:
 - Return to a lee shore (doublehander)

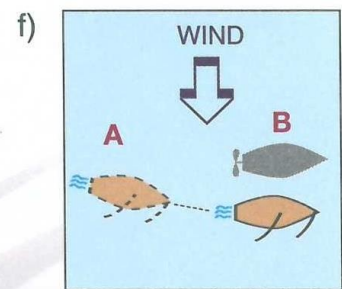
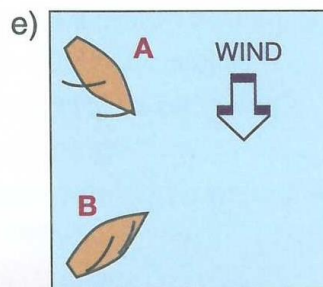
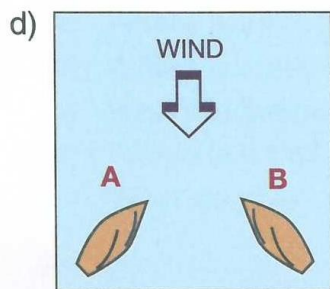
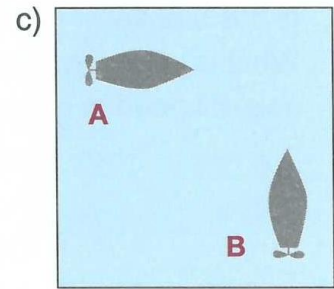
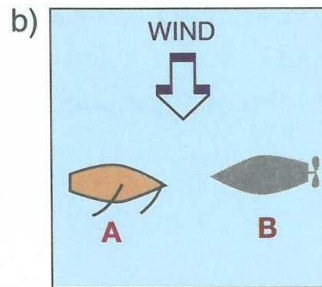
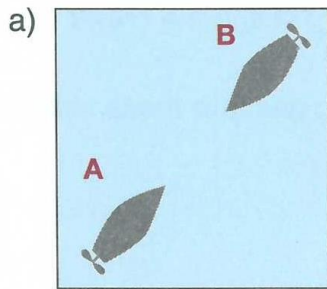
 - Leave a windward shore (singlehander)

RULES OF THE ROAD AND COLLISION REGULATIONS



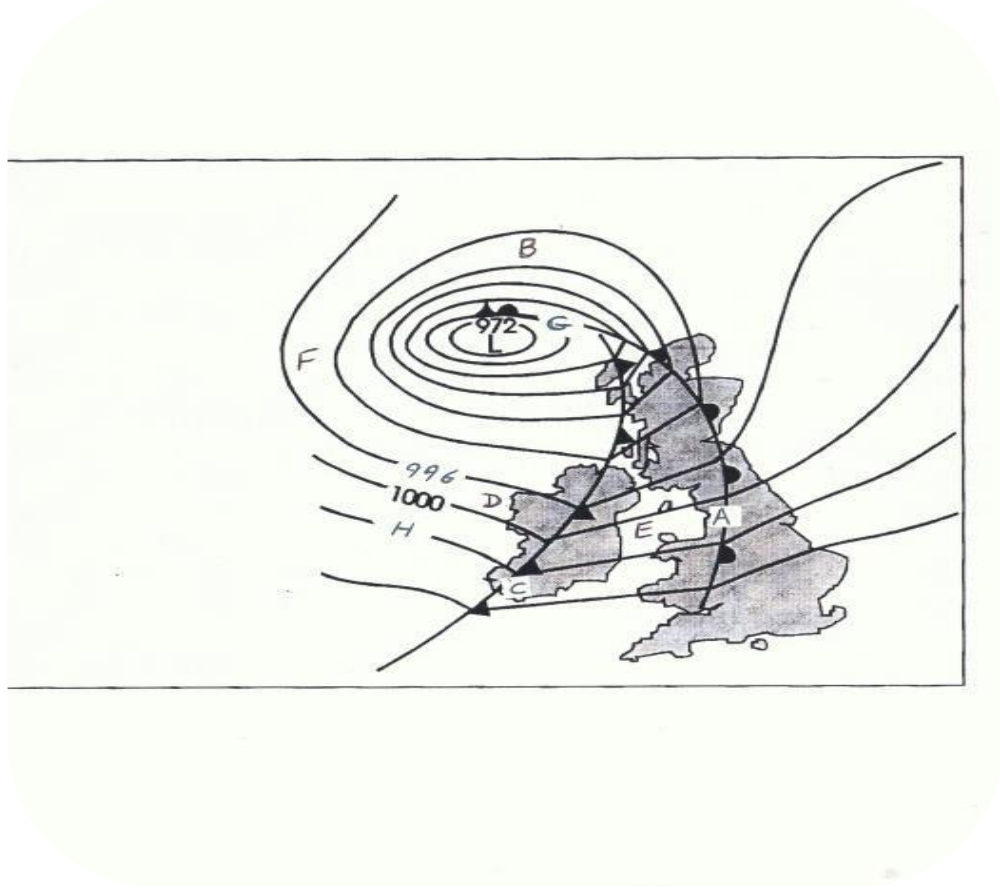
TYPE OF BUOY			
WHAT IT SIGNIFIES			
ACTION TAKEN			

8. In the following diagrams a risk of collision exists. Which is the give-way vessel? What action should it take?



ON THE SYNOPTIC CHART BELOW, ANSWER THE FOLLOWING QUESTIONS:

DESCRIPTION	ANSWER	MARKS	
NAME THE FRONT AT A		1	
NAME THE FRONT AT C		1	
NAME THE FRONT AT G		1	
NAME THE AREA AT E		1	
THE ISOBAR AT H SHOULD READ: (X): 1004 OR (Y): 1008 HECTO PASCALS		1	
AT WHAT LETTER, A TO H, IS THE WIND: EASTERLY FORCE 7-8		1	
AT WHAT LETTER, A TO H, IS THE WIND: NORTHERLY FORCE 7-8		1	
AT WHAT LETTER, A TO H, IS THE WIND: WESTERLY FORCE 7-8		1	
CHOOSE ANSWER (X) OR (Y):		LETTER	MARKS
AT POINT C, WHAT CHANGE WOULD YOU EXPECT AFTER THE FRONT PASSES? WIND WILL: (X) BACK IN DIRECTION OR (Y) VEER IN DIRECTION			1
AT POINT E, WOULD YOU EXPECT THE CONDITIONS TO BE: (X) OVERCAST WITH DRIZZLE OR (Y) SUNNY AND CLEAR			1
AT POINT D, IS THE WIND: (X) ON SHORE OR (Y) OFF SHORE			1
WHAT IS THE DIRECTION OF AIRFLOW AROUND THE LOW PRESSURE (972Hp) (X) CLOCKWISE OR (Y) ANTI CLOCKWISE			1



CHARTWORK AND TIDES.

Refers to ISA Training Chart No. 1, Use 5 West Variation for these questions.

1. PLOT THE FOLLOWING FIX:

Brow Head in transit with Mizen Head (Iso 4s 55m 15 M) 277 (M)

Eastern point Crookhaven with eastern end Rock Island (LFI WR 8s 20M 13/11M) 347 (M)

Mark this position on the chart and give its Long. and Lat.

What is the approx. charted depth of water at this position?

2. What is the time and height of high water on Saturday afternoon 7TH February 2015?
What is the depth at the position above at high water on this date?

What is the height of tide at 10.20 on the same day?

3. Measure the distance between Brow Head and the west side of Calf Island West on the chart provided.
4. Identify the following chart symbols on the chart provided; cliffs, a rock, a Martello tower.
5. Give the **compass** heading between Brow Head and the west side of Calf Island West on the chart provided.