



ISA Dinghy Instructor Pre Entry Paper 1

SAIL THEORY

1. Using diagrams name the main parts of a sail. (minimum 6)

2. Give one way to get a boat to bear away other than the rudder.

3. Explain using diagrams the “5 Essentials”.

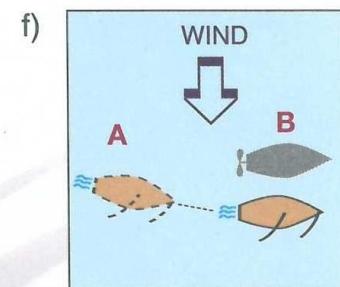
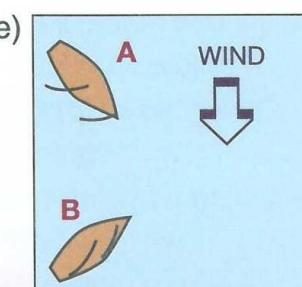
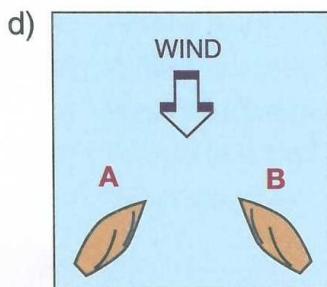
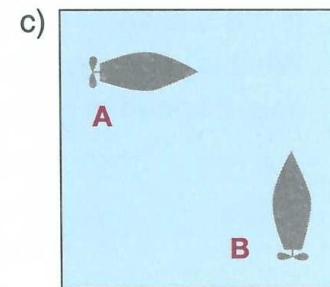
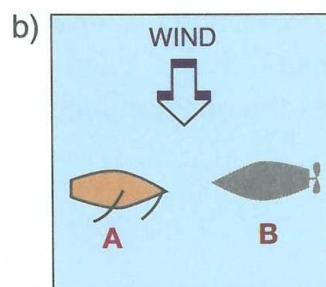
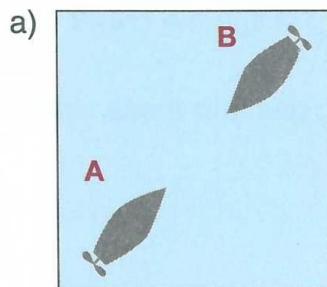
4. Describe how luff tell tales help in sail setting.

5. How should you adjust the mast bend to depower your mainsail?

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, MATCH THE LETTERS A TO H TO THE DESCRIPTIONS PROVIDED:

DESCRIPTION	LETTER	MARKS
WIND EASTERLY FORCE 7-8		1
WIND NORTHERLY FORCE 7-8		1
WIND WEST WESTERLY FORCE 7-8		1
1004 HECTO PASCAL ISOBAR		1
WARM FRONT		1
COLD FRONT		1
OCCLUDED FRONT		1
WARM SECTOR		1

CHOOSE ANSWER (X) OR (Y):	LETTER	MARKS
AT POINT C, WHAT CHANGES 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 (972Hpa) (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:

Church (28) Conspic in transit with Sbrd lat mark fl.G.5s at 111(M)

Tower (35) in transit with Lousy Rocks Beacon at 226 (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 08.20 on the same day?

3. What do the wavy lines to the S of Mizen Head indicate?

4. Measure the distance in Nautical Miles from the N side of Calf Island Middle to the anchor symbol in the middle of Schull Harbour.

5. Give the compass heading from the N side of Calf Island Middle to the anchor symbol in the middle of Schull Harbour.