GUÍA DE ESTUDIOS - CAPITÁN DE ALTURA						
Q. Number	**Question**	***IMAGEN***	**A**	**B**	**C**	**D**
Plan and conduct a passage - Meteorology						
1	Which of these is the correct pressure sequence associated with a weather " cold front "?		In advance - steady ; during the passage - sudden rise ; in the rear - fall.	None of these are correct.	In advance - fall ; during the passage - sudden rise ; in the rear - rise continues more slowly.	In advance - sudden fall; during the passage - sudden rise; in the rear - steady.
2	Tropical revolving storms are accompanied by		heavy rain sometimes with thunder and lightning.	dense fog.	slight wind and heavy rain.	very cold air and sometimes hail.
3	Which of these is the correct weather sequence associated with a "warm front"?		In advance - continuous rain; during the passage - rain almost or completely stops; in the rear - mainly cloudy and slight rain.	In advance - no rain; during the passage - continuous rain; in the rear - drizzle.	In advance - drizzle; during the passage - no rain; in the rear - continuous rain.	In advance - showers; during the passage - thunderstorms / in the rear - clear skies.
4	Frontal depressions move in families, each depression following its predecessor but in		a slightly higher latitude.	the same latitude.	a slightly lower latitude.	a much higher latitude.
5	The cause of ice accumulation on a ship is due to freezing of sea spray at a temperature below		0 degrees C.	+2 degrees C.	- 2 degrees C.	-5 degrees C.
6	On the Beaufort scale, hurricane force corresponds to wind		force 8.	force 10.	force 12.	force 14.
7	On the Beaufort scale, storm force corresponds to wind		force 10 and above.	force 8 and above.	force 12 and above.	force 6 and above.
8	Wind force 10 correspond to wind speed of		48 - 55 knots.	56 - 63 knots.	34 - 40 knots.	28 - 33 knots.
9	An occluded depression tends to move		slowly and irregularly.	fast and irregularly.	fast.	slowly.
10	In what latitude do tropical revolving storms generally originate?		0 to 25 degrees.	25 to 35 degrees.	35 to 50 degrees.	50 to 65 degrees.
11	If a meteorological depression has a large warm sector, it has a tendency to		weaken.	remain unchanged.	deepen.	move fast.
12	Which of these is the correct sequence of visibility associated with a weather "cold front"?		In advance - very good ; during the passage - moderate in showers ; at the rear - usually poor.	In advance - usually poor ; during the passage - first bad than good ; in the rear - usually very good except in showers.	In advance - very poor ; during the passage - bad ; in the rear - moderate.	In advance - very good ; during the passage - very poor ; in the rear - moderate.
13	What is the common name for hurricanes, typhoons or cyclones?		Tropical depressions.	Inter tropical convergence zones.	Monsoons.	Tropical revolving storms.
14	Which of these is the correct pressure sequence associated with a weather "warm front"?		In advance - steady ; during the passage - steady fall ; in the rear - increase.	In advance - steady fall ; during the passage - fall ceases ; in the rear - little change or slow fall.	In advance - increase ; during the passage - steady ; in the rear - decrease.	In advance - sharply falling ; during the passage - rise and fall ; in the rear - slowly rising.
15	In a tropical revolving storm, "the eye" is a small central region of.....		comparatively strong winds and heavy clouds.	very strong winds and no clouds.	no winds and heavy rain.	comparatively light winds and little clouds.

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Plan and conduct a passaae - Meteorology						
16	The eye of a tropical revolving storm is an area with light wind but with seas that are....		very high from the North or South.	very high and confused.	moderate and confused.	very high from the East or West.
17	Wind force 5 corresponds to a wind speed of		10 - 14 knots.	17 - 21 knots.	30 - 34 knots.	25 - 29 knots.
18	South Westerlies are the general surface wind in which of the following latitudes?		0 - 30 degrees.	30 - 40 degrees.	40 - 60 degrees.	60 - 90 degrees.
19	Fast moving high clouds are an indication of		bad weather to come.	good weather to come.	rainy weather to come.	unchanged weather.
20	A falling barometer is an indication of		good weather to come.	bad weather to come.	no change in weather.	rainy weather to come.
21	Which of these is the correct sequence of weather associated with a "cold front"?		In advance - heavy rain ; during the passage - no rain ; in the rear - no rain.	In advance - no rain ; during the passage - moderate rain ; in the rear - heavy rain.	In advance - clear skies ; during the passage - thunderstorms, often with hail ; in the rear - steady drizzle with cloudy skies.	In advance - usually some rain and perhaps thunder ; during the passage - rain, often heavy ; in the rear - heavy rain for a short period than fair .
22	Which of these are "high clouds"?		Altocumulus, altostratus.	Nimbostratus, stratus, stratocumulus.	Cirrus, cirrocumulus, cirrostratus.	Cumulonimbus.
23	The direction of the centre of a storm may be found by Buys Ballot's law, namely face the wind and		the centre of the storm is to your left if you are in Northern hemisphere and to your right if you are in Southern hemisphere.	in the Northern hemisphere the centre of the storm will bear 8 to 12 points to the right.	the center of the storm will be ahead about a point to the right.	the center of the storm will be right behind you about a point on your left.
24	In meteorology, isotherms are lines joining places having the same		pressure.	humidity.	temperature.	iceberg density.
25	You are 10 to 60 nautical miles away from the centre of a tropical revolving storm. What barometric changes would you expect?		No change.	Slight Increase.	Rapid fall.	Rapid Increase.
26	Which of these are "low clouds"?		Nimbostratus, stratus, stratocumulus.	Altocumulus, altostratus.	Cirrus, cirrocumulus, cirrostratus.	Megastratus.
27	What weather phenomenon can cause a reduction of radar range due to attenuation?		Rough seas.	Fog.	Mist.	Rain & snow.
28	In meteorology, isobars are lines joining places having the same		pressure.	temperature.	humidity	iceberg density.
29	Steaming South at 10 knots, you estimate the wind speed from the surface as 15 knots. Smoke from the funnel is going away to port directly to abeam. What is the approximate true direction of the wind?		WNW	NNW	SSW	WSW

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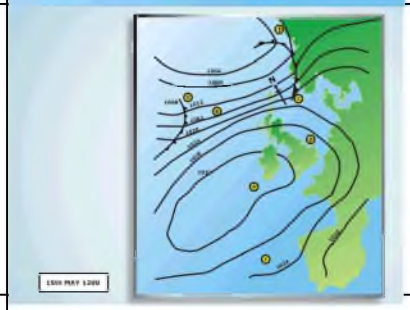
Plan and conduct a passage - Meteorology						
30	Referring to the weather map "Metmap 4", if you were at position 5, you would expect...		strong SW winds, showers.	strong NE winds, showers.	light SW winds, good visibility.	light NE winds, good visibility.
31	Referring to the weather map "Metmap 2" for 1200 May 15th, the pressure system affecting position C is a...		ridge.	col.	frontal trough.	depression.
32	At what temperatures can ice start to form on a vessel's superstructure?		2°C	0°C	-2°C	-4°C
33	Which type of cloud, from those listed, has a low base but great vertical height?		Cirrus.	Cumulonimbus.	Cirrocumulus.	Stratocumulus.
34	Referring to the weather map "Metmap 4", the line at position 1 is called...		the cold front.	the warm front.	the warm sector.	the cold sector.
35	What speed could gusts of wind reach in a Force 8 gale?		Over 14 knots	Over 24 knots	Over 34 knots	Over 43 knots

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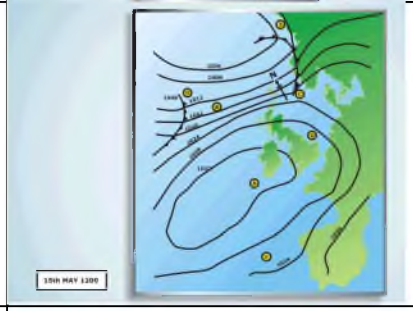
Q. Number	**Question**	***IMAGEN***	**A**	**B**	**C**	**D**
Plan and conduct a passage - Meteorology						
36	Referring to the weather map "Metmap 3", estimate the pressure gradient between positions A and B. Use the distance scale on the map.		10 mb in 100 miles.	14 mb in 100 miles.	16 mb in 100 miles.	20 mb in 100 miles.
37	Referring to the weather map "Metmap 2" for 1200 May 15th, Westerly winds are being experienced in which of the following?		Position A.	Position C.	Position D.	Position F.
38	With which type of cloud is continuous rain usually associated?		Altocumulus.	Stratocumulus.	Altostratus.	Nimbostratus.
39	During which month do most tropical storms form in the northern hemisphere?		May	August	September	December
40	In the northern hemisphere, which direction will the wind be from just before a warm front arrives?		SSW	WNW	ESE	SSE
41	Referring to the weather map "Metmap 4", a typical value for the low pressure would be...		960 mb	980 mb	1005 mb	1010 mb

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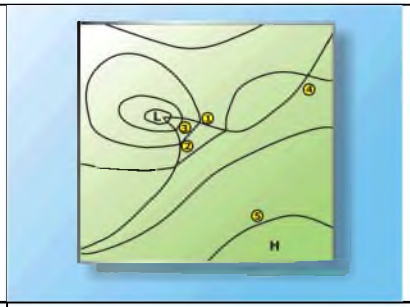
Q. Number	**Question**	***IMAGEN***	**A**	**B**	**C**	**D**
Plan and conduct a passage - Meteorology						
42	Referring to the weather map "Metmap 4", a typical value for the high pressure would be...		1005 mb	1010 mb	1015 mb	1025 mb
43	Cumulus clouds are...		thick layered clouds covering the whole sky.	flat based clouds which grow upwards and frequently have "cauliflower" tops.	thin and often causing a circular halo around the Sun or Moon.	elongated bands of cloud extending across the sky.
44	What wind speeds are likely when a weather forecast predicts an imminent Force 8 gale?		Over 10 knots	Over 14 knots	Over 24 knots	Over 34 knots
45	On a synoptic weather chart, what level of air pressure would be represented by the figure 113?		11.30 mb	113.0 mb	1011.3 mb	1130.0 mb
46	In which direction does the Coriolis force deflect winds in the southern hemisphere?		To the left	To the right	Clockwise	Anticlockwise
47	A typical value for a high pressure centre in the North Atlantic is...		1050mb	1030mb	1010mb	990mb
48	What is the name given to an elongated area of low pressure extending outwards from a depression?		A wedge.	A trough.	A ridge.	A col.
49	Referring to the weather map "Metmap 3", estimate the pressure at position C.		1018 mb	1019 mb	1020 mb	1021 mb
50	Which one of these is most characteristic of cold air?		Its lightness	Its denseness	Its fast-moving nature	The way it often remains stationary
51	When a marine thermometer is used to take air temperatures, it should be hung...		in the wheelhouse.	in a sheltered position to leeward.	exposed to the weather.	in a screen sited to windward.
52	At what altitude do altostratus clouds generally form?		500 - 2000m	2000 - 4500m	4500 - 11000m	above 11000m
53	In the northern hemisphere, which direction will the wind normally be from just before a cold front arrives?		SSW	WNW	ESE	SSE

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Q. Number	**Question**	***IMAGEN***	**A**	**B**	**C**	**D**
Plan and conduct a passage - Meteorology						
54	Referring to the weather map "Metmap 3", in which of the following positions will the wind be lightest?		Position 1.	Position 3.	Position 4.	Position 5.
55	Tropical maritime air is usually:		Cold, dry and stable	Cold, wet and stable	Warm, dry and stable	Warm, moist and unstable
56	Referring to the weather map "Metmap 3", estimate the pressure gradient between positions C and D. Use the distance scale on the map.		3 mb in 100 miles.	4 mb in 100 miles.	5 mb in 100 miles.	6 mb in 100 miles.
57	What is normally the safest angle for a vessel to steer into steep waves?		25°	45°	60°	85°
58	In the northern hemisphere, which is the most dangerous part of a storm in relation to the direction in which it is moving?		Its right hand side	Its left hand side	Its eye	Its tail
59	A barograph is an instrument which records continuous...		temperature and humidity.	temperature and dewpoint.	pressure and pressure tendency.	pressure and temperature.
60	What corrections must be applied to a mercury barometer?		Height and instrument error.	Temperature, height, and latitude.	Height, temperature and instrument error.	No corrections are necessary.
61	What is the most important way of using air pressure measurements to predict bad weather is coming?		Noticing when the pressure reading hits 1000 mb	Noticing a steady, rapid fall in air pressure	Noticing a steady rise in air pressure	Noticing the air pressure level hasn't changed by more than 1 mb in 24 hours
62	An anticyclone is an area of....		high pressure, descending air, and light winds.	high pressure, ascending air, and strong winds.	high pressure, ascending air, and light winds.	low pressure, descending air, and light winds.

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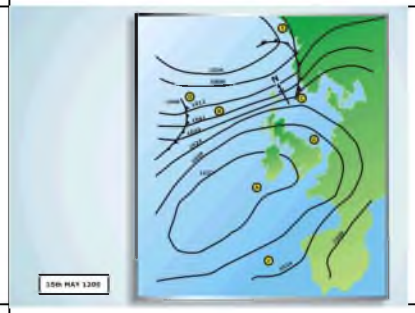
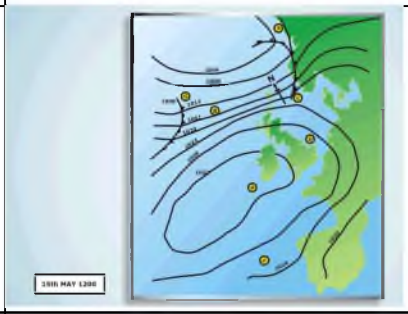
Plan and conduct a passaae - Meteorology						
63	The visual range corresponding to the term "moderate visibility" used in weather bulletins is...		1 to 2 nautical miles.	0.5 to 1 nautical mile.	5 to 7 nautical miles.	2 to 5 nautical miles.
64	Which of the following is NOT true with regard to a summer anticyclone?		Winds circulate anticlockwise in the Northern hemisphere.	Winds are generally light.	In coastal areas, sea breezes may occur by day.	Precipitation, if it occurs, is likely to be light drizzle.
65	If you see the term 'falling quickly' in a weather forecast, what does this mean the air pressure has done?		It has fallen by between 0.1 - 1.5 mb in the last three hours	It has fallen by between 1.5 - 3.6 mb in the last three hours	It has fallen by between 3.6 - 6 mb in the last three hours	It has fallen by between 6 - 8 mb in the last three hours
66	Above what speed does a tropical depression have to travel to become classed as a tropical storm?		55 kph	62 kph	74 kph	83 kph
67	Which of those listed is NOT classified as precipitation?		Drizzle.	Hail.	Snow.	Ice.
68	From those listed, which is the highest cloud?		Altocumulus.	Cirrus.	Stratus.	Cumulus.
69	If you are facing into the wind in the southern hemisphere, where would an area of low pressure lie?		In front of you	Behind you	To your right	To your left
70	Which type of cloud is associated with thunderstorms?		Stratus.	Cirrus.	Cumulonimbus.	Altostratus.
71	The three forms in which water can exist in the atmosphere are as a solid, a liquid and...		a gas.	ice.	water droplets.	clouds.
72	Which of these is not a meteorological classification of an air mass?		Tropical maritime	Polar continental	Tropical continental	Equatorial maritime
73	Referring to the weather map "Metmap 2" for 1200 May 15th, winds at position A will be forecast as...		light, variable.	Moderate, SW.	light NE.	cyclonic.
74	In a weather forecast what wave height is indicated by the term 'moderate sea'?		0.5 - 1.25m	1.25 - 2.5m	2.5 - 4m	4 - 6m

GUÍA DE ESTUDIOS - CAPITÁN DE ALTURA						
Q. Number	**Question**	***IMAGEN***	**A**	**B**	**C**	**D**
Plan and conduct a passage - Meteorology						
75	Referring to the weather map "Metmap 4", the area at position 3 is called		the cold front.	the warm front.	the warm sector.	the cold sector.
76	You observe a strong breeze of 25 knots accompanied by large waves with white foam crests and some spray. What Force on the Beaufort scale would this be rated at?		1.2	2.4	3.6	4.8
77	Which is the peak month for hurricanes in the northern hemisphere?		May	June	August	September
78	What does it mean when the barometer shows air pressure to be rising?		Bad weather is on the way	Good weather is on the way	Rising seas imminent	Snow may be about to fall
79	Referring to the weather map "Metmap 2" for 1200 May 15th, what is the predominant weather system over the UK at 1200 June 26th?		A trough.	A col.	An anticyclone.	A ridge.
80	What is normally the air pressure at sea level?		13 mb	103 mb	1013 mb	1310 mb
81	In temperate latitudes, an air temperature of 25 degrees Celsius represents....		a warm summer's day.	a hot summer's day.	a cool winter's day.	a cold winter's day.
82	Referring to the weather map "Metmap 3", estimate the wind direction at position 3.		NW	NNE	SSW	Variable

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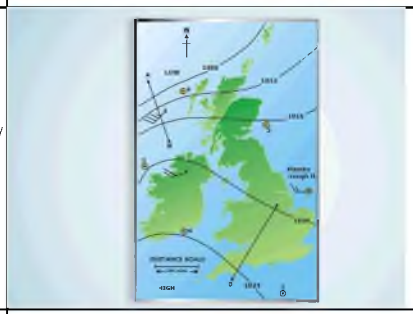
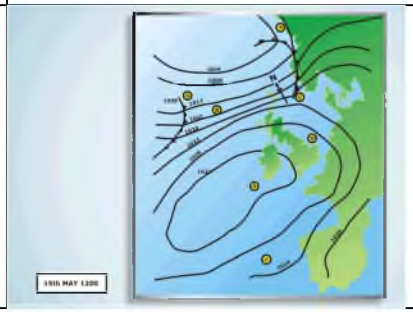
Q. Number	**Question**	***IMAGEN***	**A**	**B**	**C**	**D**
Plan and conduct a passage - Meteorology						
83	The temperature of the wet bulb thermometer falls according to the rate of...		relative humidity.	condensation.	evaporation.	dew point.
84	What is the minimum sea water temperature necessary for a hurricane to develop?		7°	17°	26°	37°
85	Referring to the weather map "Metmap 3", the forecast states "the low pressure system to the NW of the British Isles is moving slowly SE." How would you expect the wind to change at position X?		To WSW, increase to 35 knots.	To ESE, decrease in strength.	To NW, remain steady.	To NE, increase to 35 knots.
86	What distance must visibility be reduced to before water vapour is classed as fog?		500m	1000m	1500m	2 km
87	In which direction do jet streams normally travel?		West to east	East to west	North to south	South to north
88	What is 'ice blink'?		Temporary damage to the eyes caused by looking for too long at ice	A glare on the horizon perhaps indicating ice ahead	The icing up of a vessel's superstructure	Small lumps of ice moving together
89	Which of these pressures would be described as "average" in temperate latitudes?		990mb	1000mb	1010mb	1020mb
90	Referring to the weather map "Metmap 2" for 1200 May 15th, on passage up the English Channel, a vessel will probably experience...		thunderstorms.	Continuous rain.	showers.	fog or poor visibility.

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Plan and conduct a passage - Meteorology						
91	Referring to the weather map "Metmap 3", what is the forecast wind direction and strength at position Z?		NE 35 knots.	SW 35 knots.	NE force 3 to 4.	SW force 3 to 4.
92	What is a growler?		A Canadian term for a hurricane	An instrument for measuring sound distance in fog	An unexpected large wave	A small iceberg
93	Referring to the weather map "Metmap 4", if you were at position 1, you would expect...		fine weather at present, but deteriorating	low clouds and rain, but improving over the next few hours	light winds, clear skies, but rain and stronger winds expected	thunderstorms now, becoming brighter and then showers
94	In the Beaufort weather notation, what is the meaning of the symbol RR?		Rain.	Heavy rain.	Continuous heavy rain.	Continuous rain.
95	An isallobar is...		a method of measuring the pressure of the atmosphere.	a method used by meteorologists to forecast the weather.	a line on a weather map through positions having the same pressure tendency.	a line on a weather map through positions having the same atmospheric pressure.
96	Arctic air is usually:		Cold and dry	Cold and wet	Temperate and wet	Freezing and sharp
97	The most accurate sea surface temperature would be obtained from a....		water sample obtained in a metal bucket.	water sample obtained in an insulated bucket.	thermometer in the engine room intake pipe.	thermometer lowered overside in a bucket.
98	What do tightly spaced isobars indicate?		Strong winds	Light winds	No wind at all	Occasional gusts of wind

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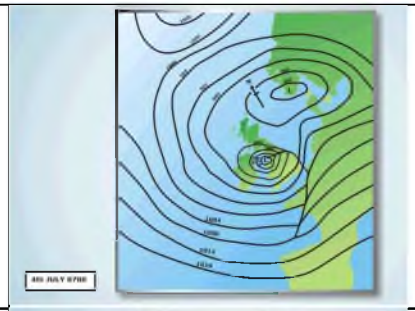
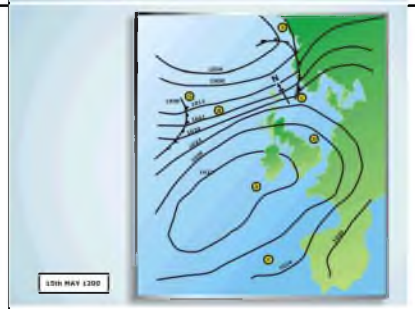
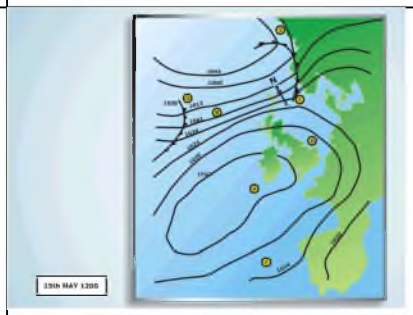
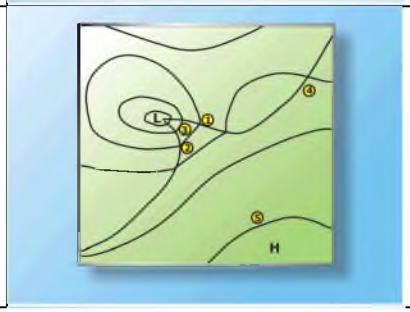
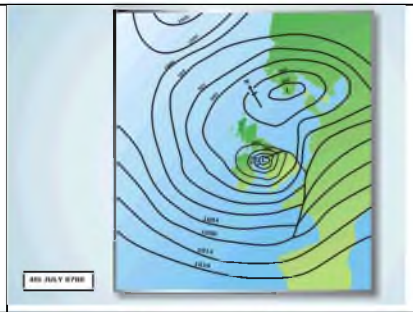
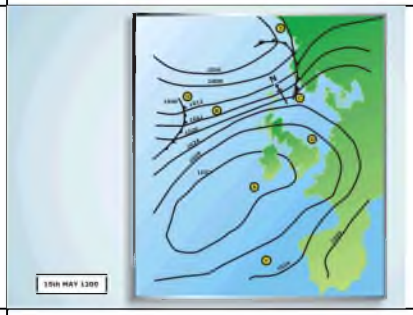
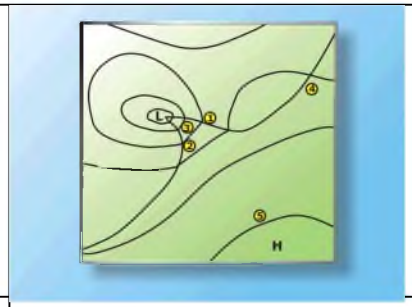
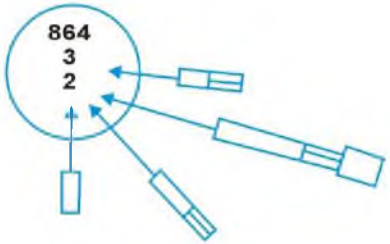
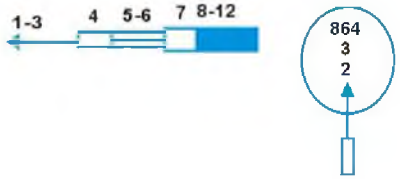
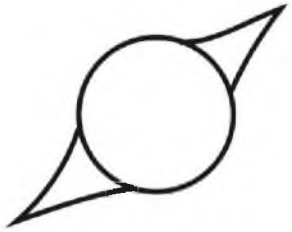
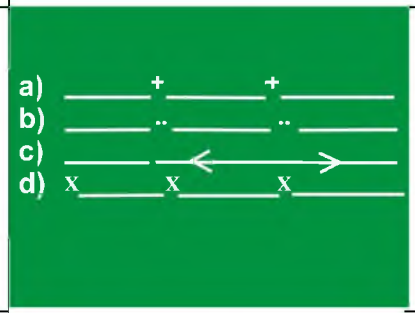
Q. Number	**Question**	***IMAGEN***	**A**	**B**	**C**	**D**
Plan and conduct a passage - Meteorology						
99	Referring to the weather map "Metmap 1" for 0700 July 4th, identify the predominant pressure system over the UK.		A depression.	A secondary depression.	A trough.	A col.
100	Referring to the weather map "Metmap 2" for 1200 May 15th, at position D, the winds can be expected to...		veer Westerly and strengthen.	veer Easterly and strengthen.	back Easterly and weaken.	be affected by sea breezes.
101	What does 'soon' mean in a weather forecast?		Within 6 hours of the warning being given	Within 6 -12 hours of the warning being given	Within 12 -16 hours of the warning being given	Within 16 - 24 hours of the warning being given
102	How does a current flowing in the same direction as the wind affect the sea wave length and height?		It decreases wave length and wave height.	It increases wave length, and decreases wave height.	It increases wave length and height.	It decreases wave length and increases wave height.
103	In the Northern hemisphere, the wind at sea level rotates around a depression in...		an anticlockwise direction parallel to the isobars.	a clockwise direction parallel to the isobars.	an anticlockwise direction at a small angle to the isobars inwards towards the centre.	a clockwise direction at a small angle to the isobars outwards away from the centre.
104	What is the biggest cause of high waves forming?		Depth of sea	Distance from nearest land	Wind	Latitude
105	Buys Ballot's Law says that if a seafarer faces the wind in the southern hemisphere then the area of low pressure will be:		Directly ahead	Directly behind	To the left	To the right
106	An isobar is...		a method of measuring the pressure of the atmosphere.	a method used by meteorologists to forecast the weather.	a line on a weather map through positions having the same pressure gradient.	a line on a weather map through positions having the same atmospheric pressure.

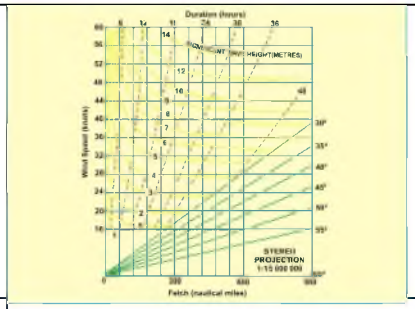
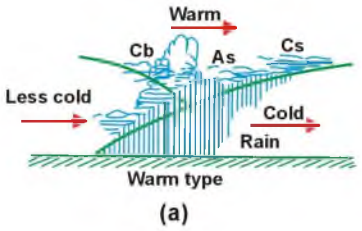
GUÍA DE ESTUDIOS - CAPITÁN DE ALTURA						
Q. Number	**Question**	***IMAGEN***	**A**	**B**	**C**	**D**
		Plan and conduct a passage - Meteorology				
107	After allowing for latitude daytime variation, what sort of fall in air pressure might indicate an approaching storm?		1 mb in one hour	1 mb in three hours	3 mb in three hours	3 mb in 24 hours
108	Referring to the weather map "Metmap 2" for 1200 May 15th, the predominant weather system at position G is...		a deep depression.	a weak low.	a col.	a ridge.
109	Referring to the weather map "Metmap 1" for 0700 July 4th, what is the pressure system over the UK most likely do over the next 12 hours?		Remain stationary.	Move eastwards.	Move southwards.	Move northwards.
110	Referring to the weather map "Metmap 4", the line at position 2 is called		the cold front.	the warm front.	the warm sector.	the cold sector.

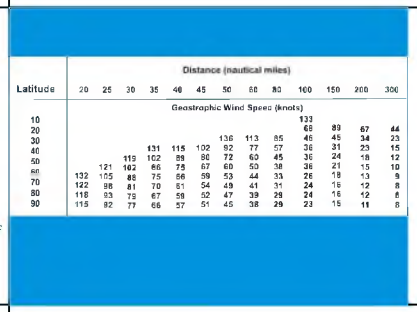
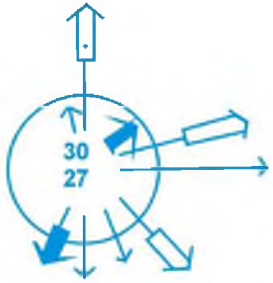
GUÍA DE ESTUDIOS - CAPITÁN DE ALTURA						
Q. Number	**Question**	***IMAGEN***	**A**	**B**	**C**	**D**
Plan and conduct a passage - Meteorology						
111	Referring to the weather map "Metmap 1" for 0700 July 4th, if you are on passage through the Dover Straits, the wind can be expected to...		Veer SW	Back SW	Veer NW	Back NW
112	Referring to the weather map "Metmap 2" for 1200 May 15th, the pressure system over the UK will probably, in the next 12 hours.....		move rapidly Eastwards.	remain stationary.	move steadily Northwards.	move steadily Westwards.
113	Showery precipitation is most likely to be produced by...		cirrus type clouds.	cumulus or cumulonimbus clouds.	stratus clouds.	nimbostratus clouds.
114	Referring to the weather map "Metmap 3", in which of the following positions will the wind be strongest?		Position 1.	Position 2.	Position 4.	Position 5.
115	Sea fog is likely to form when the wind changes direction to bring air from a...		warm area of sea over a cold land.	cold area of sea over a warm area of sea.	cold land over a warm sea.	warm land over a cold area of sea.
116	With which type of cloud is hail usually associated?		Cirrus.	Altocumulus.	Stratus.	Cumulonimbus.

GUÍA DE ESTUDIOS - CAPITÁN DE ALTURA						
Q. Number	**Question**	***IMAGEN***	**A**	**B**	**C**	**D**
	Plan and conduct a passage - Meteorology					
117	Referring to the weather map "Metmap 4", if you were at position 2, you would expect...		the wind to veer to the West, visibility to improve.	the wind to back to Easterly and become lighter.	poor visibility and continuous rain for a while.	showers followed by thunderstorms.
118	What level of visibility does 'poor' indicate in a weather forecast?		Between 5 - 8 nautical miles	Between 2 - 5 nautical miles	Between 1000 - 2000m	Less than 1000m
119	How reliable are official wave forecasts considered to be?		50%	70%	80%	Almost 100%
120	What is an isobar?		A contour line of constant wind speed	A contour line of constant altitude	A contour line of constant air pressure	A contour line of constant visibility
121	Referring to the weather map "Metmap 4", the line at position 4 is probably...		the trailing part of the cold front of a previous low.	the likely direction of movement of the low system.	a frontal trough.	a ridge of higher pressure.
122	Where, in a warm sector depression, are fog patches and light drizzle most likely to occur?		In the side of the depression away from the fronts.	On passage of the cold front.	After the passage of the cold front.	In the warm sector of the depression.
123	Which of these cities is one of the three key weather information collecting centres?		Tokyo	Melbourne	London	Cape Town
124	If the atmosphere contains less water vapour than it is capable of holding at that temperature, it is said to be...		wet.	dry.	saturated.	unsaturated.
125	Sea waves will increase in height in certain conditions. From those listed, which is NOT one of those conditions?		When they travel against a current.	When they approach a coastline.	When they come into shallower water.	When they travel with a current.
126	A depression is formed when:		Polar continental air meets polar sea air	Warm, damp air meets cold, dry air	Any two air masses meet	Two masses of tropical continental air meet

GUÍA DE ESTUDIOS - CAPITÁN DE ALTURA						
Q. Number	**Question**	***IMAGEN***	**A**	**B**	**C**	**D**
Plan and conduct a passage - Meteorology						
127	On this weather routeing chart, what does the upper figure indicate?		The number of observations.	The percentage frequency of variables winds.	The number of observed calms.	None of the other options.
128	On this weather routeing chart, what is the wind speed indicated by the arrow?		4 kts	3 kts	5 kts	7 kts
129	On this weather routeing chart, what is indicated?		Radio calling in point, way or reporting point showing direction of vessels movement.	Ramark.	Aeronautical radio beacon.	Coast radio station providing range and bearing from stations on request.
130	What is rain accompanied by snow called?		Sleet.	Snow flakes.	Ice pellets.	Hail.

GUÍA DE ESTUDIOS - CAPITÁN DE ALTURA						
Q. Number	**Question**	***IMAGEN***	**A**	**B**	**C**	**D**
Plan and conduct a passage - Meteorology						
131	On this weather routeing chart, what does this figure indicate?		Pipeline	Telegraph line	Power transmission line	Overhead transporter
132	What is the quantity of water vapour present in the atmosphere called?		Humidity	Relative humidity	Absolute humidity	Dew point
133	On weather routeing charts how are iceberg limits presented?		letter a	letter b	letter c	letter d
134	On this weather routeing chart, what does this figure indicate?		Single Occulting	Single flashing	Group quick	Composite group flashing

GUÍA DE ESTUDIOS - CAPITÁN DE ALTURA						
Q. Number	**Question**	***IMAGEN***	**A**	**B**	**C**	**D**
	Plan and conduct a passage - Meteorology					
135	Assuming a forecast wind of say, 30 kts, with the maximum wind duration and maximum fetch, what would be the value of the significant wave height?		4.9	4	3	3.9
136	What weather conditions are likely to result from the movement of warm air mass over a relatively colder sea surface?		Fog	Rain	Squalls	Trough
137	On this weather routeing chart, what does this figure indicate?		Overfalls and tide-rips	Eddies	Breakers	Kelp
138	A sudden rising strong wind, or sudden increase of wind usually followed immediately by a shower of rain or snow is called a		squall	cyclone	storm	tropical cyclone
139	Meteorology - what does the figure indicate?		Warm occlusion	Cold occlusion	Warm front	Cold front
140	In which area will the isobars be spaced closest, given the wind speeds indicated?		40kts	20kts	30kts	10kts
141	A squall line of sharp changes of wind, is very often associated with		cold front.	warm front.	occluded front.	warn front.
142	Which of these atmospheric layers is closest to the earth?		Troposphere	Stratosphere	Mesosphere	Ionosphere
143	What is water content of the atmosphere (usually expressed as a percentage) known as?		Humidity	Dew	Fog	Mist

GUÍA DE ESTUDIOS - CAPITÁN DE ALTURA						
Q. Number	**Question**	***IMAGEN***	**A**	**B**	**C**	**D**
	Plan and conduct a passage - Meteorology					
144	In what direction does the wind blow around a cyclonic storm in the northern hemisphere?		Anti-clockwise	Clockwise	Towards the pole	Towards the equator
145	If the distance between two consecutive isobars (drawn at intervals of 4mb) is found to be 100 n.m. and the latitude is 50 deg, what is the geostrophic wind speed?		30 kts	15 kts	60 kts	120 kts
146	If an observer is facing the wind in the northern hemisphere, where does the low pressure lie?		To the right	To the left	Ahead	Behind
147	On this weather routeing chart, what does the lower figure represent?		The percentage frequency of currents having a rate of less than ½ knot	The number. of observations	The mean resultant	The strongest current experienced
148	What is the instrument used for measuring humidity of the atmosphere called?		Psychrometer	Humidifier	Hydrometer	Barometer
149	What does this indicate on a wether map?		Cold front	Warm front	Occluded front	Stationary front
150	When visibility is 1km or less, it is known as		fog.	haze.	mist.	none of the other options.
151	What instrument is used for measuring the velocity of the wind?		Anemometer	Barometer	Tachometer	Hydrometer

GUÍA DE ESTUDIOS - CAPITÁN DE ALTURA						
Q. Number	**Question**	***IMAGEN***	**A**	**B**	**C**	**D**
Plan and conduct a passage - Meteorology						
152	What type of clouds are shown in the picture?		Stratocumulus	Cumulus	Stratus	Cirrus

GUÍA DE ESTUDIOS CAPITÁN DE ALTURA	
Plan and conduct a passage - Meteorology	
ANSWERS	
1	C
2	A
3	A
4	C
5	D
6	C
7	A
8	A
9	A
10	A
11	C
12	B
13	D
14	B
15	D
16	B
17	B
18	C
19	A
20	B
21	D
22	C
23	B
24	C
25	C
26	A
27	D
28	A
29	A
30	C
31	C

GUÍA DE ESTUDIOS CAPITÁN DE ALTURA	
Plan and conduct a passage - Meteorology	
ANSWERS	
32	C
33	B
34	B
35	D
36	B
37	B
38	D
39	B
40	C
41	B
42	D
43	B
44	D
45	C
46	A
47	B
48	B
49	B
50	A
51	D
52	C
53	D
54	A
55	B
56	A
57	C
58	A
59	C
60	B
61	B
62	A

GUÍA DE ESTUDIOS CAPITÁN DE ALTURA	
Plan and conduct a passage - Meteorology	
ANSWERS	
63	D
64	A
65	C
66	C
67	D
68	B
69	D
70	C
71	A
72	A
73	A
74	B
75	C
76	D
77	D
78	B
79	C
80	C
81	B
82	C
83	C
84	C
85	A
86	D
87	C
88	B
89	C
90	D
91	B
92	D
93	B

GUÍA DE ESTUDIOS CAPITÁN DE ALTURA	
Plan and conduct a passage - Meteorology	
ANSWERS	
94	C
95	C
96	D
97	B
98	A
99	B
100	D
101	B
102	B
103	C
104	C
105	A
106	D
107	C
108	B
109	B
110	A
111	A
112	B
113	B
114	D
115	D
116	D
117	A
118	C
119	B
120	C
121	A
122	D
123	B
124	C

GUÍA DE ESTUDIOS CAPITÁN DE ALTURA	
Plan and conduct a passage - Meteorology	
ANSWERS	
125	D
126	B
127	A
128	A
129	A
130	A
131	A
132	A
133	A
134	A
135	A
136	A
137	A
138	A
139	A
140	A
141	A
142	A
143	A
144	A
145	A
146	A
147	A
148	A
149	A
150	A
151	A
152	A

GUÍA DE ESTUDIOS CAPITÁN DE ALTURA
Plan and conduct a passage - Meteorology
ANSWERS