MCA Yacht 3/2 - Chief Engineer Statutory and Operational Requirements - Examination February 2008.

1.	With reference to a yacht tender launching and recovery lifting appliance:-			
	a) state FOUR safety requirements that need to be complied with			
	before the rig can be safely used;	(4)		
	b) state the periodic inspection and testing requirements for th	ne rig; (4)		
	c) state where the results of inspections and testing are record	ded. (2)		
2.	With reference to maritime administration:-			
	a) explain what is meant by the term port state inspection;b) list the circumstances that could instigate a non-routine port	(4) state		
	inspection.	(6)		
3.	With reference to condition monitoring:-			
	a) state how vibration analysis can be used as part of a planned			
	maintenance system;	(4)		
	b) list SIX tests that can be carried out on generator crankcase oil in			
	order to determine its suitability for further service.	(6)		
4.	With reference to machinery watch-keeping:-			
	a) list FIVE responsibilities of a watch-keeper;	(5)		
	b) state the procedures that should be followed when attending	a		
	machinery space under U.M.S. conditions.	(5)		

5.	Calculate the safe given the following Displacement Range	350 tonnes 2500 nautical miles	ge,		
	Speed Fuel coefficient	20 knots 49,000	(6)		
	b) state TWO actions that could be taken if it is found, during the				
	subsequent voyage	, that part of the fuel is contaminated.	(4)		
6.	With reference to the classification of vessels:-				
	a) state what is meant by the term condition of class ; (4)				
	b) state a typical time period over which a condition of class may be				
	imposed;	(2)			
	c) list TWO circumstances under which the society would be entitled				
	to withdraw class.		(4)		
7.	With reference to the International MARPOL Convention 73/78 Annex V - Garbage handling:-				
	a) list SIX defined categories of garbage; (6)				
	b) list FOUR garbage handling procedures that require an entry in the				
	garbage record boo	ok.	(4)		
8.	With reference to fuels, state the meaning of EACH of the following:-				
	a) flash point;		(2)		
	b) self ignition tem	nperature;	(2)		
	c) upper explosive	limit;	(2)		
	d) lower explosive	limit;	(2)		
	e) vapour density.		(2)		
9.	With reference to the classification of bulkheads:-				
	a) state FOUR cate	egories of A-class bulkhead;	(4)		
	b) describe the parameters that are used in order to determine the				
	category of an A-c	lass bulkhead;	(4)		
	c) list TWO examples of the location of A-class bulkheads on a large				
	motor yacht.		(2)		

- 10. With reference to the dry-docking of a large motor yacht:a) state FIVE precautions that should be undertaken before the vessel enters the dock;
 (5)
 - b) list FIVE routine maintenance activities that would be undertaken while the vessel is in dock. (5)