<u>MCA Yacht 3/2 – Chief Engineer Statutory and</u> <u>Operational Requirements – Examination October</u> <u>2006.</u>

1.	With reference to the Code of Safe Working Practices for Merchant Seamen guidance on the use of lifting plant:- a) state FOUR safety requirements that need to be complied	
	with before an item of lifting plant can be safely used; b) state the periodic inspection and testing requirements for	(4)
	an item of lifting plant; c) state where the results of inspections and testing are	(4)
	recorded.	
2.	a) Define the term flag state control .	(4)
	b) Define the term port state control .	(4)
	c) State TWO examples of areas of the world that are covered by port state memoranda of understanding (MOU) .	(2)
3.	With reference to machinery planned maintenance:- a) define the term condition monitoring ;	(4)
	b) state THREE ways in which condition monitoring may be applied to a main propulsion diesel engine.	(6)
4.	With reference to machinery watch-keeping procedures:- a) state the off-duty time to which a watch-keeper is legally entitled for EACH of the following:-	
	i) in any twenty four hour period;	(3)
	ii) accumulatively over the period of one week;	(1)
	b) state the safety procedures that should be undertaken in EACH of the following circumstances:-	
	i) before entering an unattended machinery space;	(2)
	ii) whilst working within an unattended machinery space; iii) after leaving an unattended machinery space.	(2) (2)
5.	a) A vessel has no record of past fuel consumptions. Calculate the bunker requirements for a forthcoming voyage, given the	
	following data:-	(6)

Note	b) State TWO actions th	1500 tonnes 2000 nautical miles 15 knots 52,000 eserve allowance should be made . Nat could be taken if it is found that, yage, there is insufficient fuel	(4)
6.	With reference to the classification of vessels:- a) list FOUR classification societies that are members of the International Association of Classification Societies; b) state what is meant by the term condition of class ; c) state a typical time period over which a condition of class may be imposed.		(4) (4) (2)
7.	 With reference to the International MARPOL Convention 73/78 Annex IV - Sewage Pollution (as amended August 2005):- a) define the term sewage; b) state the limitations that are imposed on the discharge of sewage within 3 miles from land; c) state the THREE sewage handling options that will allow compliance with the convention. 		(2) (2) (2) (6)
8.	hydrocarbon content of a of the following:- i) the point at whic ii) the variation in mixture; iii) the variation in mixture.	sketch the changes in oxygen and a flammable mixture, indicating EACH ch the mixture becomes inert; the upper explosive limit of the the lower explosive limit of the of the use of flame arrestors on a	(2) (2) (2) (4)
9.	a) state FOUR reasons fo	atertight integrity of a vessel's hull:- or fitting watertight bulkheads; y EACH of the following terms:-	(4)

i) weather deck;	(2)
ii) margin line;	(2)
iii) permeability.	
With reference to the dry-docking of a large motor yacht:-	
a) state FIVE services that must be made available in order to	
maintain the safety of the vessel;	(5)
b) state FIVE essential checks that must be carried out prior	
to the flooding of the dock on completion of repairs.	(5)

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6 OCTOBER 2006

WORKSHEET Q8

