

Y4

Auxiliary Equipment and Basic Ship Construction Sept 09/02/2011

- 1 a Sketch a bilge injection valve labelling all the parts
b Explain how the valve is tested

- 2 a centrifugal pump is found not to be pumping, The water ring was tested and found to be working. List 5 faults that may be the cause and how to fix

- 3 a List 5 safety devices in a medium speed gearbox explaining how they work
b List 4 contaminants in a medium speed engine gearbox oil and state why

- 4 Explain the procedure for an inspection of a medium speed engine gearbox

- 5 a Explain how misalignment of the shaft is allowed for in a plain bearing type
b Explain why the longitudinal movement appears in the shaft

- 6 Explain why the aft most shaft bearing is a full bush type.

- 7 The shaft bearing appears to be over heating and is running at normal speed and load, explain what the fault maybe and how to fix.

- 8 Sketch a hydraulic stabilizer system labelling all the parts.

- 9 Explain speed droop on a generator.

- 10 Explain what happens when two generators are in parallel and one has a higher droop than the other generator.