

GUJARAT TECHNOLOGICAL UNIVERSITY**B. E. Sem-VI Examination May 2011****Subject code:161801****Subject Name: Marine Auxiliary Machines-II****Date:16/05/2011****Time: 10.30 am – 01.00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Explain the utilization of following ship board equipments **07**
1. Incinerators
2. Anchor chain.
3. Chain blocks.
(b) Explain the theory of purification. **07**

- Q.2** (a) What is Telemotor system? Explain importance of telemotor system. **07**
(b) Explain working of different centrifuges used for heavy fuel and lubricating oil in ship. **07**

OR

- (b) Explain care and maintenance of steering gear plants. **07**

- Q.3** (a) Classify various types of steering machinery. Explain in brief each of them. **07**
(b) Explain various methods of shaft alignments. **07**

OR

- Q.3** (a) Explain the constructional features of Thrust blocks. **07**
(b) Differentiate between intermediate shaft bearing and stern-tube bearing. **07**

- Q.4** (a) Explain with neat sketch measurement of shaft clearance and stern-tube bearing. **07**
(b) Explain stresses induced in tail end shafts, intermediate shaft & thrust shaft. **07**

OR

- Q.4** (a) Explain the method of dry-docking of ships. **07**
(b) Explain in detail various hull-protection arrangement. **07**

- Q.5** (a) Classify various types of blowers and compressor used on board ship. **07**
(b) Explain maintenance of blowers & compressors. **07**

OR

- Q.5** (a) What is the importance of stabilizing the ship? **07**
(b) Explain different types of ship stabilizing techniques with diagrams. **07**
