

GUJARAT TECHNOLOGICAL UNIVERSITY**BE- VIth SEMESTER-EXAMINATION – MAY- 2012****Subject code: 161801****Date: 09/05/2012****Subject Name: Marine Auxiliary Machines-II****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 theory of oil purification in detail. **07**
(b) Explain in detail different types of ship stabilizers. **07**

- Q.2** (a) Explain Hull protection arrangement in ship **07**
(b) What is Bow thruster ? why it is provided in ship ? draw figure of same. **07**

OR

- (b) What is incinerator ? why it is essential in ship ? explain with diagram. **07**

- Q.3** (a) Classify various types of steering machinery used in ship. **05**
(b) State the names of different types of pumps used in ship **04**
(c) Explain in brief hunting action of steering gear. **05**

OR

- Q.3** (a) Why thrust blocks are provided ? explain constructional details of thrust blocks. **07**
(b) Explain various methods of shaft alignment with diagram. **07**

- Q.4** (a) What is dry docking of ship ? explain in brief various methods of dry docking. **07**
(b) Explain in brief (1) engine room crane **07**
(2) tackles

OR

- Q.4** (a) Explain procedure for overhauling of underwater fittings and hull of ship. **07**
(b) Explain in brief (1) chain blocks **07**
(2) anchor chain

- Q.5** (a) What is bearing ? explain in detail sturn tube bearing. **07**
(b) State various uses of compressed air. **07**

OR

- Q.5** (a) State various stresses developed on tail end and thrust shaft. **07**
(b) Explain various types of centrifuges used in ship. **07**
