

B.Sc. (NAUTICAL SCIENCE)

Term-End Examination

June, 2013

**BNA-016 : CARGO HANDLING, STOWAGE
AND SEAMANSHIP - I**

Time : 2 hours

Maximum Marks : 70

*Note : All questions are compulsory. Q.1 carries 20 marks.
All other questions carry 10 marks each.*

1. Define the following : 20
 - (a) Bale capacity
 - (b) Grain capacity
 - (c) Stowage factor
 - (d) Load density
 - (e) Broken stowage.

2. Discuss the importance of ballasting and de-ballasting, how is it related to loading and discharging of cargo ? 10

3. Explain the care and maintenance of wire ropes. 10

4. Describe with sketch how will you rig threefold purchase 10
 - (a) To advantage
 - (b) To disadvantage

5. Explain the care and maintenance of : 10
- (a) Synthetic ropes
 - (b) Fibre ropes
6. Explain with suitable sketch. 10
- (a) Rise of floor
 - (b) Flare
 - (c) Sheer
 - (d) Camber
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