

B.Sc. (NAUTICAL SCIENCE)**Term-End Examination****December, 2015****BNA-016 : CARGO HANDLING, STOWAGE AND
SEAMANSHIP - I***Time : 2 hours**Maximum Marks : 70*

Note : Answer *all* questions. All questions carry equal marks. Use of non-programmable scientific calculator is allowed.

1. Define the following : 10
 - (a) Displacement
 - (b) Stowage factor
 - (c) Dead weight
 - (d) Fresh water allowance
 - (e) Load density

2. List the precautions you will take while : 10
 - (a) Rigging the gangway
 - (b) Working Aloft

3. (a) Define Ship sweat, Cargo sweat and Dew Point Temperature.

(b) Explain Dunnage and its use on board ships. 10

4. Sketch and describe the following : 10
- (a) Tumblehome
 - (b) Rise of Floor
 - (c) Watertight Bulkhead
 - (d) Beam knees
 - (e) Sheer
5. Explain the different types of corrosion. How is it prevented ? 10
6. A vessel is in saltwater with her summer loadline 60 mm above water on the Port side and 10 mm above the water on the Starboard side. Find the DWT available, if her TPC is 40. 10
7. A box-shaped vessel is 120 m long, 14 m wide and 12 m high. If her displacement is 13776 t, find her reserve buoyancy % in SW. 10
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