

00705

**B.Sc. (NAUTICAL SCIENCE)**

**Term-End Examination**

**December, 2012**

**BNA-023 : CARGO HANDLING, STOWAGE  
AND SEAMANSHIP - II**

*Time : 2 hours*

*Maximum Marks : 70*

- 
- Note :* (i) *All questions are compulsory.*  
(ii) *Use of Scientific calculator is permitted.*
- 

1. How do you check the weather-tightness of hatch covers on bulk carriers ? 3
  
2. Answer briefly in 2 to 3 sentences. 5x2=10
  - (a) What is the purpose of P.V. value ?
  - (b) What is OBQ and ROB ?
  - (c) What is Dangerous Cargo Manifest ?
  - (d) What is the purpose of safety cut out for cranes ?
  - (e) Expand ISGOTT.
  
3. (a) List the various types of containers and state their purpose. 5+2=7
  - (b) What is the purpose of ramp on a Ro - Ro - vessel ?

4. (a) Explain the terms used in anchor work. **6+4=10**  
(i) A'cock bill (ii) foul hawse  
(iii) Joining Shackle  
(b) Explain the role of safety officer.
5. (a) What is the purpose of permits ? **3+4+3=10**  
(b) List the safety precautions while anchoring.  
(c) Why are synthetic rope tails used along with mooring wire ?
6. (a) List any six duties while keeping watch during loading on a general cargo vessel. **6+4=10**  
(b) Explain how anchor is secured for sea ?
7. (a) Explain the working of a eductor **5+5=10**  
(b) What are the contents of cargo securing manual ? Briefly explain.
8. (a) In what form are cargoes carried on a Gas carrier ? **3+5+2=10**  
(b) Explain the figure 0 5 0 3 0 6 found on Bay plan of a container vessel.  
(c) What do you mean by liquefaction of bulk cargo ?
-