

00465

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

**Term-End Examination**

**December, 2010**

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

*Time : 2 hours*

*Maximum Marks : 70*

---

*Note : Use of scientific calculator allowed.*

---

---

**ANSWER BRIEFLY**

**5x2=10**

1. (a) What do you mean by a positive displacement pump ?  
(b) What is a spurling pipe ?  
(c) Where are vacuators used ?  
(d) What is the purpose of P.V. Valve ?  
(e) For which Cargo is bulk grab used ?
2. A 3 ton weight is lifted using a gun tackle to disadvantage. What is the effort required ? (Friction 10%) **3**

3. Explain the meaning of the terms - 4x2=8
- (a) Cocktail
  - (b) bitter end
  - (c) Long Stay
  - (d) Brought up to 3 shackles in water
4. What safety precautions will you take while 2x3=6
- (a) Rigging Gangway
  - (b) Anchoring
5. Explain any four differences between a chemical tanker and a Gas carrier. 5
6. List ten types of containers used in Sea trade. 5
7. State and Explain briefly the three main hazards of bulk Cargo. 5
8. List the Cargoes carried on Multi - Purpose Vessels. 3
9. What is the role of the ship security officer . 5
10. Explain how you will prepare a cargo hold for receiving cargo? 7
11. What are the contents of the cargo securing manual. 5
12. Explain the markings on the anchor to indicate 3 shackles. 3
13. Explain the working of the eductor. 5
-