

B.Sc. (NAUTICAL SCIENCE)

Term-End Examination

June, 2013

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

Time : 2 hours

Maximum Marks : 70

Note : Use of scientific calculator is permitted. All questions are compulsory.

1. List All the Portable Securing Gears used for Lashing Containers, Loaded on Deck. 3

2. Answer briefly in one to two lines : 2x10=20
 - (a) What is a deep well pump ?
 - (b) What do you mean by intrinsically safe ?
 - (c) What is certificate of slops ?
 - (d) Expand ISGOTT.
 - (e) What is the purpose of safety Get out for a crane ?
 - (f) What is a bulk tainer ?
 - (g) What is a shiptainer ?
 - (h) What is a Penguin hook in container lashing ?
 - (i) What is stack weight of a container ?
 - (j) What are the problems of loading high density bulk cargo ?

3. (a) With the aid of a diagram explain the direct line system on a tanker. $5+2=7$
- (b) Why are internal ramps provided on a Ro Ro vessel ?
4. (a) Explain how anchors are secured prior proceeding to sea. $4+4+2=10$
- (b) List the ports of the windlass.
- (c) Explain the term anchor aweigh.
5. (a) What is the role of ships security officer ?
- (b) What precautions will you take while working aloft ? $6+4=10$
6. (a) What are the markings on the block ? $2+5+3=10$
- (b) How are hatch covers tested for weather tightness ?
- (c) List the groups of cargoes mentioned in IMSBC code.
7. (a) Explain the four types of segregation of IMDG cargo, for under deck CARGOES.
- (b) List any five points of ship shore safety check list given in the BLU code. $5+5=10$
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