

01794

B.Sc. (NAUTICAL SCIENCE)

Term-End Examination

June, 2011

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

Time : 2 hours

Maximum Marks : 70

Note : Use of scientific calculator permitted.

Answer Briefly in one to two lines.

1. (a) What is Dangerous Cargo Manifest ? **5x2=10**
(b) What is the purpose of Safety cut out for cranes ?
(c) What is Mate's Receipt ?
(d) What do you mean by spontaneous combustion ?
(e) Expand TEU, ROB.

2. A 5 ton weight is lifted using two fold purchase rigged to disadvantage. What is the effort required ? (Friction 10%) **3**

3. List any five points of Ship Shore Safety Check list for Bulk Carrier as per BLU code. 5
4. Explain the meaning of the terms : 2x3=6
- (a) Short Stay
 - (b) Brought up to 4 shackles on deck
 - (c) Foul hawse
5. List briefly the safety precautions : 3x2=6
- (a) While working with Chipping Machine.
 - (b) While entering battery room.
6. How are hatch covers tested for weather tightness ? 5
(*Any two* methods).
7. What are the markings on the container ? 5
8. What checks will you carry out prior to making entry into a tank ? 5
9. What cargoes are carried on chemical tankers ? 3
10. List the lashings used for securing containers on deck. 5

11. (a) What is the purpose of ramps on a Ro-Ro vessel ? 3x2=6
- (b) What is a cargo stowage plan ?
- (c) What is Reefer temperature log ? Why is it maintained ?
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12. (a) Why synthetic rope tails are used along with mooring wires ? 2+3=5
- (b) Explain the use of swivels. Where are swivels fitted ?
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13. (a) List four types of segregation as per IMDG code. 3x2=6
- (b) What cargo is carried on a Multi Purpose Vessel ?
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