

01306

B.Sc. (NAUTICAL SCIENCE)

Term-End Examination

June, 2010

**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, Norries/Burtons tables
are allowed.*

Answer the following briefly : **10x2=20**

1. (a) What is a Multi Purpose Vessel ?
- (b) What is the purpose of internal ramps and lifts on a ro-ro vessel ?
- (c) What is meant by "Transportable Moisture Limit "in relation to BC code ?
- (d) List any three terms used in the IMDG code to segregate goods belonging to different classes and describe any one such term.
- (e) In relation to a Bulk barrier that is loading at a terminal what is meant by "air draft" ?
- (f) What is a Bay Plan on a container vessel ?

- (g) What is meant by "ROB" on a tanker ?
 - (h) How do you use synthetic rope tails with mooring wire ?
 - (i) What is the role of ship security officer as per ISPS code ?
 - (j) What is "Mates Receipt" ?
2. (a) List and briefly describe any six salient duties that you will perform on a crude oil tanker that is going to discharge Cargo in port. **6+4=10**
- (b) What is the purpose of Inert gas system on a tanker and *only list* its main parts / equipments/components ?
3. (a) What is a chemical tanker ? Name any four Cargoes such vessels carry. What is the IMO code such vessels have to comply ? **5+5=10**
- (b) What is a Gas barrier ? Name any four Cargoes such vessels carry. Name and briefly describe the IMO code such vessels have to comply ?
4. (a) What are, in general, the hazards associated with carriage of Bulk Cargoes ? **4+6=10**
- (b) What are the locking and securing arrangements provided on container vessels ?

5. (a) What precautions you will take when working with compressed air ? **3+3+4=10**
- (b) How will you mark the sixth shackle on an anchor cable ?
- (c) What precautions you will take when working with a bosun chair ?
6. Discuss SHIP/SHORE safety check list for Bulk carriers whilst discharging/loading Cargo at the Berth. Write 10 points. **10**
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