	Utech
Name:	
Roll No.:	To Daniel (If Knowledge 2nd Copillant)
Invigilator's Signature :	

# CS/BNS/SEM-2/BNS-204/2010 2010

### **CARGO WORK AND MARINE COMMUNICATION**

Time Allotted: 3 Hours Full Marks: 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

#### **GROUP - A**

### (Objective Type Questions)

1. Answer very briefly:

 $10 \times 1 = 10$ 

- i) Differentiate between oil cargoes and chemical.
- ii) What is the difference between LPG and LNG?
- iii) What are the different types of Oil Tankers?
- iv) Define Load density.
- v) Define Stowage Factor.
- vi) Explain Crain capacity.
- vii) What is meant by seaworthiness?
- viii) Define Dead weight cargo.
- ix) What is the use of Jackstaff?
- x) What is the use of Interco?

2167 [ Turn over

#### CS/BNS/SEM-2/BNS-204/2010

#### **GROUP - B**

# (Short Answer Type Questions)

Answer any three of the following.



- 2. What are the various methods of signaling?
- 3. Describe care and maintenance of Blocks.
- 4. How will you go about preparing the Hold for loading general cargo?
- 5. What are the advantages of using union purchase?
- 6. Describe the types of Lashing material used on board a general cargo ship.
- 7. Explain the following:
  - i) Safe working load.
  - ii) Breaking stress.
  - iii) Factor of safety.
  - iv) Cargo sweat.
  - v) Ship sweat.

2167



### **GROUP - C**

### (Long Answer Type Questions)

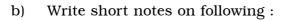
Answer Question No. 8 and any two from Question Nos. 9 to 11.

 $3 \times 15 = 45$ 

- 8. Using a three-fold purchase rigged to disadvantage to lift a weight of 9.6 Tonnes, find
  - i) the tension in the Hauling Part.
  - ii) the efficiency of the system.
  - iii) the minimum size of Manila rope that can safely beused in the purchase.
- Draw a neat sketch of Common Derick and label the various parts.
- 10. a) What are the precautions would you take before loading a heavy lift cargo?
  - b) What cares are to be taken on such cargo while at sea?
- 11. a) What are the types of hatch covers that used on modern cargo ship?

2167 3 [ Turn over

# CS/BNS/SEM-2/BNS-204/2010





- i) Bunting
- ii) Hoist
- iii) Courtesy Flag
- iv) Quarantine signal group from ICS.
- v) Difference between AA and CQ.

2167 4