



# ICM

SEPTEMBER 2015

PORT OPERATIONS & MANAGEMENT

**Instructions to candidates:**

- a) Time allowed: Three hours (plus an extra ten minutes' reading time at the start – do not write anything during this time)
  - b) Answer any FIVE questions
  - c) All questions carry equal marks. Marks for each question are shown in [ ]
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- 1. a) List FIVE multiple roles of ports. [5]  
b) Discuss the main functions and features of a port. [15]
  - 2. Discuss the advantages and disadvantages of relationships between ports and liner shipping. [20]
  - 3. a) List the factors that should be considered in making a port safe for navigation. [10]  
b) What elements would you consider implementing to preserve the environments in a port's waters? [10]
  - 4. Why are a number of ports now looking at transferring from municipal or Government ownership to private ownership? [20]
  - 5. Explain the history and technical functions of the International Association of Ports and Harbors (IAPH) and its importance in the ports industry. [20]
  - 6. a) List the goals and objectives of a port. [5]  
b) Explain the constraining influences and pressures by external parties on port management. [15]
  - 7. List and explain the TEN major causes of delays in ports. [20]
  - 8. a) Explain the process and information involved in berth planning. [10]  
b) How would you go about planning the loading and unloading of ships and what information is needed? [10]