



# ICM

MARCH 2016

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 and describe the main functions and features of a port. [8]
    - b) In tabular form list the main facilities and services provided by a port. [12]
  2.
    - a) Explain what is meant by '**silent VTS**' (Vessel Traffic Services) and how it works. [10]
    - b) List and describe the THREE basic types of VTS. [10]
  3.
    - a) List the elements of safety that make a port safe. [10]
    - b) What are the SIX main conclusions of the UK Pilotage Act of 1987? [10]
  4. Port development is said to fall under four headings: First, second, third and fourth generations. Using a table, summarise the differences between them. [20]
  5.
    - a) There are considered to be four approaches to port pricing. List and describe ALL of them. [10]
    - b) What is the three-step methodology for setting prices advocated by Dowd and Fleming (Maritime Policy & Management)? [10]
  6. Explain the following cargo handling terms:
    - a) The two types of dunnage
    - b) Angle of repose
    - c) Stowage factor
    - d) Deadweight cargo
    - e) Broken stowage [20]
  7. It is suggested a SWOT analysis (strengths, weaknesses, opportunities, threats) is a useful tool in assessing a port's competitive position.
    - a) List and explain the elements to be considered in this analysis. [10]
    - b) What are considered to be 'wildcards' affecting a port's growth? [10]
  8. Competing ports need to be viewed by exporters' and importers' perspectives. Using a table, show both port selection and port services criteria. In addition what are considered to be the most important factors? [20]