



SEAGOING DECK OFFICER CLASS 3
CERTIFICATE OF COMPETENCY

PART B

PAPER 2

WATCHKEEPING AND METEOROLOGY

Time Allowed: 2 hours 30 minutes

INSTRUCTION: -

This paper contains NINE questions where

Candidates should answer questions 1, 2, 3 and any FOUR questions from the remainder.

Questions do not carry equal marks and candidates are advised to allocate their time accordingly.

The full mark for this paper is 100 and the pass mark is 60 (60%)

CANDIDATES ARE NOT ALLOWED TO WRITE ON OR DEFACE THIS PAPER

This paper consists of this page and THREE other printed pages.

Notes to Candidates:-

- i) Write down your name in the top right-hand corner on the first page of the answer sheets.
- ii) Write down the question number in the top left-hand corner on each page.
- iii) Answer each question on a new page.
- iv) No need to copy the questions' details onto the answer sheets.
- v) **Switch off all your mobile phones and communication devices when in the examination room.**
- vi) **Return all the question paper(s), the used and unused answer sheets before leaving the examination room.**
- vii) **Do not disturb other candidate(s) in the examination room.**
- viii) **Do not attempt to take any photos or recordings of any question papers and/or answer sheets.**
- ix) The progress of the examination is being recorded by close-circuit television (CCTV) and voice recorders in the examination room.

If the above rules from item v) to viii) are infringed, candidates will be regarded as having failed the examination as a whole and will not be accepted for re-examination for such period as may be decided by the Director.

考生注意事項：-

- i) 在答題紙首頁右上角寫上姓名。
- ii) 在每頁答題紙的左上角標明回答的問題題號。
- iii) 每一條問題另開新頁作答。
- iv) 不需要抄寫問題到答題紙上。
- v) 進入試場後，把手機及所有通信設備關閉。
- vi) 離開試場前，交回所有試卷、所有用過和未用過的答題紙及草稿紙。
- vii) 試場內不可干擾其他考生。
- viii) 切勿嘗試拍攝或錄取任何試卷或答案。
- ix) 考試期間試場內會有閉路電視(CCTV)和錄音系統進行記錄。

如果違反上述 v) 至 viii) 規則，即當作所有考試不及格，以及在處長決定的期間內不得重考。

Answer questions 1, 2, 3 and any FOUR questions from the remainder.

1. (a) Explain the reason why magnetic compass was compulsory to be equipped for sea going vessels though modern gyro-compass was equipped as well onboard with more accuracy.

(b) Explain how a Gyro-scope can be designed to Gyro-compass that can be equipped for sea-going vessels with ability of pointing to true north of the meridian.

(20 marks)

2. (a) Explain the reason of monsoon.

(b) State the characteristics of Indian Ocean monsoon and Asian monsoons.

(20 marks)

3. (a) Explain the meaning of “generic training” and “type specific raining” of ECDIS(Electronic Chart Display and Information System) training

(b) What is the function of LOP? (line of position)

(c) With aids of land marks and/or sea buoys, how to verify the accuracy of GPS position via ECDIS operation.

(20 marks)

4. Briefly describe the procedure of change manual steering to auto steering and vice versa.

(10 marks)

5. (a) State what information should be included in the fire control plan of a 40,000 gross tonnage bulk carrier with a crew complement of 25 persons.

(b) State where copies of the fire control plan should be displayed.

(10 marks)

6. (a) What is difference and relation between relative humidity and dew point?

(b) Briefly describe the characteristic of advection fog.

(10 marks)

7. When handing over the anchor watch to the Second Officer at mid-night, what actions and information would you include in the hand over?

(10 marks)

8. What is the function of international convention "MARPOL"? What are the annexes relevant to?

(10 marks)

9. Explain the meaning of "cold front", what kinds of cloud shall appear when cold front approaching?

(10 marks)

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