



NATIONAL SENIOR CERTIFICATE EXAMINATION
MAY 2024

MARITIME ECONOMICS
MARKING GUIDELINES

Time: 3 hours

300 marks

These marking guidelines are prepared for use by examiners and sub-examiners, all of whom are required to attend a standardisation meeting to ensure that the guidelines are consistently interpreted and applied in the marking of candidates' scripts.

The IEB will not enter into any discussions or correspondence about any marking guidelines. It is acknowledged that there may be different views about some matters of emphasis or detail in the guidelines. It is also recognised that, without the benefit of attendance at a standardisation meeting, there may be different interpretations of the application of the marking guidelines.

QUESTION 1 MULTIPLE CHOICE

1.1 C

1.2 B

1.3 B

1.4 C

1.5 A

1.6 B

1.7 C

1.8 A

1.9 D

1.10 B

1.11 C

1.12 D

1.13 C

1.14 D

1.15 B

1.16 C

1.17 A

1.18 C

1.19 B

1.20 C

1.21 B

1.22 B

1.23 B

1.24 C

1.25 A

QUESTION 2

- 2.1 2.1.1 Steam engines
 - 2.1.2 Coal
 - 2.1.3 More cargo space; longer range; environmentally friendly; less manpower
 - 2.1.4 Scrubbers; use of cleaner fuel; anti-fouling paint; new hull and engine designs;
 - 2.1.5 International convention for the prevention of marine pollution.
- 2.2 2.2.1 Containership
 - 2.2.2 $621 \div 6 = 103.5$ (103/104) ships
 - 2.2.3 Cars/trucks/buses (any wheeled cargo)
 - 2.2.4 Capesize
 - 2.2.5 2020
 - 2.2.6 Covid-19 pandemic
 - 2.2.7 2021, because there is a massive jump in numbers of ships in 2022.
- 2.3 2.3.1 Any suitable heading
 - 2.3.2 More seafarers will get jobs; improvement of SA economy.
 - 2.3.3 China; Philippines; Russia; Ukraine; Indonesia, Poland, Croatia, ANY FOUR.

QUESTION 3

- 3.1 3.1.1 $720\ 000 \div 30\ 000 = 24$ shipments
- 3.1.2 24 shipments \div 4 ships = **6** shipments per ship
- 3.1.3 Save time; and save costs
- 3.1.4 Cargo insurance
- 3.2 3.2.1 Geared, handysize bulk carrier
- 3.2.2 16 years (built 2007)
- 3.2.3 More
- 3.2.4 Yes, owned in Japan but registered in Liberia
- 3.2.5 Better tax benefits; cheaper registration fees; liberty to hire cheaper crew; to secure a loan; cabotage reasons.
- 3.2.6 Panama; Liberia; Marshal Island; Singapore; Japan
- 3.2.7 Employment/training of seafarers; tax revenue; promotion of SA as maritime nation; any other plausible answer.
- 3.3 3.3.1 Prevent contamination; no damage to new cargo
- 3.3.2 Set of instructions with regards to the new voyage about to be taken
- 3.3.3 ISPS Code
- 3.3.4 Book a berth; arrange for stores; organise surveyors; inform various government agencies; any other plausible answer.
- 3.3.5 Immigration
- 3.4 3.4.1 $7\ 500t \div 85t/h = 89h + 6 = 95$ hours.
- 3.4.2 $09:00\ 01/10 + 95h = 08:00\ 05^{th}$ October
- 3.4.3 $12:00\ 05^{th}$ October
- 3.4.4 (a) Laytime
- (b) Charterparty
- (c) More
- (d) Demurrage

- 3.5 3.5.1 No
- 3.5.2 *MV Petra* not in imminent danger; no salvage operations
- 3.5.3 Det Norske Veritas
- 3.5.4 Yes
- 3.5.5 Drydock

QUESTION 4

- 4.1 4.1.1 Heiwa Marine Holdings, Inc
- 4.1.2 A K Food & Beverage Limited
- 4.1.3 Foodcom CC
- 4.2 4.2.1 Shipper
- 4.2.2 Shipper
- 4.2.3 Shipper
- 4.3 One
- 4.4 4.4.1 $4d + 15d + 6d + 15d + 3d = 43$ days
- 4.4.2 $30d \times 55t/d = 1\ 650$ tons
- 4.4.3 $1\ 650t - 900t = 750$ tons
- 4.4.4 In case of unforeseen delays
- 4.5 4.5.1 Protest actions and floods
- 4.5.2 $R16\ 500 - R11\ 500 = R5\ 000$ per ton
- 4.5.3 Increase
- 4.5.4 There will be more demand for bulk carriers.
- 4.5.5 Decrease sugar import duty
- 4.6 Importance of Cape Agulhas route
- 4.7 4.7.1 *Seahorse Plant*
- 4.7.2 29th October
- 4.7.3 24 days
- 4.7.4 Customs (SARS)

QUESTION 5

- 5.1 Fish dying; fishing industry suffers; negative effect on employment and country economy; tourism sector suffers; any other plausible answer
- 5.2 5.2.1 Depression
- 5.2.2 12 hours
- 5.2.3 Drop in temperature; strong winds; rough seas; SW'ly wind; heavy rain
- 5.2.4 Make it difficult to clean up; clean-up dangerous; clean-up suspended.
- 5.3 Sharks are important for marine ecosystem. If killed, lower predators (seal) will increase, eating up all the fish, and whole ecosystem collapse.

Total: 300 marks