

NATIONAL SENIOR CERTIFICATE EXAMINATION NOVEMBER 2013

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.

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QUESTION 1 THE MARITIME WORLD

1.1		-	eeded for liquid fuel/longer range. ertinent answer.	$(2\times 2=4)$	
1.2	1.2.1	Any o	quotation of a positive nature.	(2)	
	1.2.2	Any quotation that describes a frightening aspect of life aboard a sa ship.			
	1.2.3	No sails to handle/less arduous/no 'going aloft'. Any other pertinent answer.			
	1.2.4	Wind is free/environmentally friendly/rising costs of fuel. Any other pertinent answer.			
1.3	1.3.1	North-East Asia.			
	1.3.2	303		(4)	
	1.3.3	(a)	Competition from road/rail/larger ships taking on sho cargoes.	ort-haul $(2 \times 2 = 4)$	
		(b)	Port Elizabeth/East London/Mossel Bay.	$(2\times 2=4)$	
	1.3.4	(a)	No containerships are idle.	(2)	
		(b)	Fewer containerships operate in these areas. All containershi are in these areas are operating.	ps that (4)	
1.4	1.4.1	Any country in Arabian Gulf. Any country in Far East.			
	1.4.2	West Africa to US Gulf.			
	1.4.3	Higher rates.			
	1.4.4	Petrol/diesel/ship's fuel/any other oil product.			
	1.4.5	Liquid natural gas.			
	1.4.6		ng winter > much demand for gas for heating and lighting appropriate of the second sec	each of $(3 \times 2 = 6)$ [60]	

 $(4 \times 2 = 8)$

QUE	STION	2	SHIPPING OPERATIONS				
2.1	No.				(2)		
2.2	Owne	d and flagged in Norway.					
2.3	specif	prove plans/monitor building/conduct sea trials to ensure she meets diffications/declare her fit for sea/regular surveys to ensure seaworthiness/rove any modifications/survey her if any accidents and declare seaworthy before can resume trading. (Any $5 \times 2 = 1$)					
2.4		oats are operational/safety, fire and abandon ship drills done/proper register of entering enclosed spaces/any other. (any $3 \times 2 = 6$					
2.5	Norwa	ay.			(2)		
2.6	Any two flag state control functions. (any 2				$(any \ 2 \times 2 = 4)$		
2.7	2.7.1	1 Total reefer slots $-(459 - 108 + 97) = 1800 - 444 = 1356$ slots. (
	2.7.2	(a)	Ship operating between hub ports and smaller, outlying ports.				
	2.7.3	(b) (a)	Containers aboard arrival Sing 40' (2 044 + 3 032 + 1 792 + 9 20' (278 + 103 + 76 + 145) – 6 Capacity GP containers Vacant slots Will only be space for 756 TE Total number of containers Number of lifts per hour Hours for cargowork Plus breaks & shift changes Total time	904) - (2 504 + 1 014 + 1 354) = (62 + 56 + 41) = = 9 800 TEU - (5800 + 443) T = 9 800 TEU - 6243 TEU = 3577 TEU - 454 TEU = 3093 TEU	443		
		(b)	10:00 on 29/11 + 33 hrs + 2 h	rs = 21:00 on 30/11	(6)		
	2.7.4	Near t	(2)				
	2.7.5	FOB - consig CIF -	whale/				
2.8	2.8.1	8.1 P & I					
	2.8.2	Pilot launch P & I.					
	2.8.3	(a) Report – award marks for clarity of expression and for record fact of the incident.			ing the (10)		

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Owner/P & I Club/Flag State/Port State.

(b)

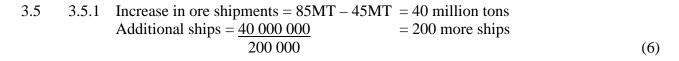
2.9	2.9.1	Procedures involved in movement of container from Leiden to Rotterdam (by truck), to Singapore (by sea) and to warehouse (by truck). (10)						
	2.9.2	(a) Hollandsche sjokolade.	(2)					
		(b) Viking shipping.	(2)					
2.10	2.10.1	Public interest in dramatic (unusual) events. Possible pollution disaster/environmental effect.						
	2.10.2	Public perception that F.O.C. ships have inferior standards. Blame is usually prevalent in public's mind. (2	× 2 = 4)					
	2.10.3	The plight of the crew.	(2)					
	2.10.4	Onshore.	(2) [120]					
QUES	STION	3 INTERNATIONAL TRADE						
3.1	3.1.1	Country A.	(2)					
	3.1.2	Cheaper because of subsidy.	(2)					
3.2	Straits	s of Dover/English Channel/Straits of Gibraltar/Gulf of Aden/Straits/Malacca Straits. (Any $2 \times 2 = 4$)						
3.3	3.3.1	IMO	(2)					
	3.3.2	United Nations.	(2)					
	3.3.3	'9/11'	(2)					
3.4	3.4.1	Normal voyage = $1 \text{ day} + 8 \text{ days}$ = 9 days Operating costs = $9 \text{ days} \times \$12\ 000$ = $\$108\ 000$ Fuel HVF = $9 \text{ days} \times 64\text{T} \times \790 = $\$455\ 040$ MDO = $9 \text{ days} \times 03\text{T} \times \$1\ 096$ = $\frac{\$29\ 592}{592}$ Total normal voyage = $3 \text{ days} + 6 \text{ days}$ = 9 days Operating costs = $9 \text{ days} \times \$12\ 000$ = $\$108\ 000$ Fuel HVF = $9 \text{ days} \times \$2\text{T} \times \790 = $\$654\ 120$ MDO = $9 \text{ days} \times 03\text{T} \times \$1\ 096$ = $\frac{\$29\ 592}{592}$ Total delayed voyage = $\$791\ 712$	(10)					
		Delayed voyage more expensive by \$100 080.	(10)					
	3.4.2	Text of email: Use discretion and award marks for content: reasons for delay/observations of action in Port Suez/hearsay.	(12)					

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3.4.3 Text of email: Use discretion and award marks for content/confirmation of passing through Suez/on passage to Felixstowe/ETA Felixstowe.

ETA Felixstowe: 00:01 on 17 Feb + 6 days = 00:01 on 23 Feb (or midnight 22 Feb). (10)

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$$3.5.2 \quad \frac{3 \times 100}{5} = 60\% \tag{6}$$

- (b) Too many for one berth/overlapping calls. (6)
- (c) Extra storage tanks. (2)
- 3.5.4 Repair facility needed/additional foreign exchange/jobs will be created/ favourable ripple effect on all repair companies/economic growth of the region. (10)
- 3.5.5 More tugs/more road traffic/more personnel, e.g. pilots/more training of all levels of work force/other relevant points. $(4 \times 2 = 8)$
- 3.6 3.6.1 Marpol. (2)
- 3.6.2 Solas. (2) **[90]**

QUESTION 4

MARINE ENVIRONMENTAL CHALLENGES

- 4.1 Opinion regarding fines imposed: Award marks for clear reasons for opinions. (4)
 - 4.1.2 \$1 million. (4)
- 4.2 Hurricane season/ship needs to avoid hurricanes. (4)
- 4.3 4.3.1 Into the swell. (2)
 - 4.3.2 Depression (or mid-latitude cyclone or cold front). (2)
 - 4.3.3 12 hours. (2)
 - 4.3.4 Damage containerships/cause containers to break loose. Any one (2)
- 4.4 4.4.1 No countermeasures against poaching/fish stocks depleted/future of fishing joepardised. $(3 \times 2 = 6)$
 - 4.4.2 Full research was not done/fish resources not estimated properly/no proper planning possible regarding future fish stocks. $(2 \times 2 = 4)$ [30]

Total: 300 marks