

NATIONAL SENIOR CERTIFICATE EXAMINATION NOVEMBER 2011

MARITIME ECONOMICS

MARKING GUIDELINES

Time: 3 hours

300 marks

These marking guidelines were used as the basis for the official IEB marking session. They were prepared for use by examiners and sub-examiners, all of whom were required to attend a rigorous standardisation meeting to ensure that the guidelines were consistently and fairly interpreted and applied in the marking of candidates' scripts.

At standardisation meetings, decisions are taken regarding the allocation of marks in the interests of fairness to all candidates in the context of an entirely summative assessment.

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, and different interpretations of the application thereof. Hence, the specific mark allocations have been omitted.

QUESTION 1 THE MARITIME WORLD

1.1			
1.1	1.1.1	Coal.	(2)
	1.1.2	Steam.	(2)
	1.1.3	Internal combustion engine (accept motorship or something similar). (2)
	1.1.4	Automation / modern engines require less maintenance / motorship require stokers.	ps do not $(3 \times 2 = 6)$
	1.1.5	North Atlantic.	(2)
	1.1.6	Southwards (accept from the polar region or something similar).	(2)
	1.1.7	Fog.	(2)
1.2	allow	pace needed for liquid fuel / range of ships increased / routes did no for coaling / refuelling was quicker and cleaner / fewer engineroor ed. Any other plausible answer.	
1.3	1.3.1	Operating costs might increase / bunker price might increase / Su close / Suez closure would cause huge increases in operating costs other increases caused by the unrest.	-
	1.3.2	Cape Route.	(2)
	1.3.3	Major revenue earner / jobs would be lost if the canal closed.	$(2 \times 2 = 4)$
	1.3.4	Military took control of the canal (or Military protection).	(2)
1.4	1.4.1	Containerships.	(2)
	1.4.2	They are large (or They have large cargo capacity.)	(2)
	1.4.3	Large volume of cargo but few ships.	$(2 \times 2 = 4)$
1.5	1.5.1	Many alternative careers / living conditions ashore are good / do desire for leisure / Any other plausible reason.	le / more Any 3 (3 × 2 = 6)
	1.5.2	Unemployment / good salaries compared to those offered is countries / less alternatives available / many young people still hav with the sea.	
	1.5.3	Any plausible method of encouraging young South Africans to go t	o sea. (2)

[60]

QUESTION 2 SHIPPING OPERATIONS

2.1			
2.1	2.1.1	Delhi Steel.	(2)
	2.1.2	Handysize / geared. (2×2)	= 4)
	2.1.3	2 580 rolls of steel.	(6)
	2.1.4	(a) $\frac{8400\text{tons}}{14\text{tons}} = \frac{600\text{rolls of steel}}{6\text{rolls per hour}} = 100\text{hours} + 16\text{hours} = 116\text{hours}$	(8)
		(b) $116 \text{ hours} + 48 \text{ hours} = 164 \text{ hours}$	(6)
		(c) 08:00 on $\frac{24}{11}$ + 164 hours = 04:00 on $\frac{1}{12}$	(6)
		(d) NO.	(2)
		(e) Dispatch.	(2)
		(f) Shipowner.	(2)
		(g) 04:00 on $\frac{1}{12}$ + 6 hours = 10:00 on $\frac{1}{12}$	(6)
	2.1.5	(a) Shipper.	(2)
		(b) Consignee.	(2)
		(c) Consignee.	(2)
2.2	2.2.1	PORT	

(4)

- 2.2.2 Port State Control (or SAMSA) / Flag State Control (or Panamanian authorities) / Classification Society (or Det Norske Veritas). $(3 \times 2 = 6)$
- 2.2.3 P & I Club (or West of England).

 \sim

(2)

2.2.4 YES.

(2)

	2.2.5	Damag Joint v	e is a joint venture between shipowner & cargo owner. ge to one party had occurred. enture was completed (ship arrived at destination). ent for damage & salvage must be shared between parties.	(8)
	2.2.6	Agreei	ment between shipowner and salvors. e is conducted on a 'no cure, no pay' basis.	(4)
	2.2.7	YES.		(1)
	2.2.7		wed vessel to port.	(2)
	2.2.0	Tug to	wed vessel to polt.	(2)
	2.2.9	(a)	Rescue crew.	(2)
		(b)	Need to try to prevent damage to the environment. Tug would have been awarded costs and a profit (about 25%).	(4)
	2.2.10	(a)	Arbitration.	(2)
		(b)	London	(2)
2.3	2.3.1	Centra	l America (or reasonable description of the location of Panama).	(2)
	2.3.2	YES.		(2)
	2.3.3	Registerin Pana	ered in different country to her owners (Owned in Norway; registered ama).	(4)
	2.3.4	(a)	Approve plans / Monitor construction / Participate in trials / Ensure vessel meets specifications.	(4)
		(b)	Check plan for repair / Monitor repairwork / Do inspection to ensure that vessel is seaworthy / Release her for normal trading. Any (2×2)	(=4)
2.4			cle – Award marks for inclusion of all relevant facts and quotations ster and tugmaster.	(14) [120]

QUESTION 3 INTERNATIONAL TRADE

3.1				
	3.1.1	Straits of Hormuz.	(2)	
	3.1.2	Red Sea.		
	3.1.3	Arabian Gulf (or Persian Gulf).	(2)	
	3.1.4	$\frac{16\ 000\ 000}{10} = \frac{1\ 600\ 000\ tons}{100\ 000\ tons} = 16\ tankers\ per\ day$	(6)	
	3.1.5	Much of Arabian Gulf oil is consumed in Far East (Japan, China, Korea) or India and doesn't pass through the Canal.	(8)	
	3.1.6	All tankers would be diverted via the Cape. Especially seriously affected would be those moving from Black Sea to Far East.		
		Longer voyage = more tankers needed to replenish stocks Increased time = increased costs	(8)	
	3.1.7	(a) Increased shipping costs = Increased cost of oil = Increased bunker costs	(4)	
		(b) Longer voyage = Increased shipping costs = Increased costs of goods	(4)	
		(c) Diverted ships would need bunkers, stores = ports would become congested	(4)	
	3.1.8	Containers / Iron ore / Coal / Minerals / GrainAny $(2 \times 2 =$	= 4)	
3.2	3.2.1	No.	(6)	
	3.2.2	(a) 332.64 metres.	(2)	
		(b) 20.657 metres.	(2)	
		(c) Via Indian Ocean, The Cape, Atlantic Ocean.	(6)	
		(d) Draught too great for Suez.	(2)	
3.3	3.3.1	Standards of Training and Certification of Watchkeepers.	(2)	
	3.3.2	A watchkeeper is inadequate qualified. A crew member cannot display competence. (or any other) $(2 \times 2 =$	= 4)	
	3.3.3	Ship will be detained / Fine imposed / Ship may not sail until compliance is met. $(3 \times 2 =$	= 6)	
	3.3.4	South African Maritime Safety Authority (or SAMSA).	(2)	

	3.4.7	International Ship and Port Security Code.	(2) [90]
	3.4.6	Carriage of Goods by Sea.	(2)
	3.4.5	Winter North Atlantic.	(2)
	3.4.4	Loadline (or Plimsoll Line).	(2)
	3.4.3	SOLAS	(2)
	3.4.2	MARPOL	(2)
5.4	3.4.1	IMO	(2)
3.4			

QUESTION 4 MARINE ENVIRONMENTAL CHALLENGES

4.1

4.2

4.1.1	(a)	North East Gale with gusts of 85 knots (or similar explanation).	(6)	
	(b)	Wind speed will get less later (or similar explanation).	(2)	
	(c)	One cannot see far in the rain (or similar explanation).	(2)	
4.1.2	Wind.		(2)	
4.1.3	12 Ho	12 Hours.		
4.1.4	Low Pressure.			
4.2.1	Ship's	engines.	(2)	
4.2.2	YES.		(2)	
4.2.3	Coal g	gives off more smoke than oil-fired engine.	(2)	
4.2.4	Letter	to the Editor. Award marks for expression of opinion.	(8) [30]	

Total: 300 marks