SYLLABUS OF WRITTEN EXAMINATION FOR THE POST OF SI (MASTER)

(Objective type questions with multiple choice answers to be answered on OMR Answer Sheet) Time-02 Hrs (100 Questions & 100 Marks)

(a) General Knowledge & Awareness	- 25 Questions	-25 Marks
(b) Reasoning Ability	- 25 Questions	-25 Marks
(c) Numerical Ability	- 25 Questions	-25 Marks
(d) Trade Awareness	- 25 Questions	-25 Marks

Standard and syllabus for Written Examination as under :-

1.

General	(I) Current Affairs (Events related to India its neighbouring countries)
Knowledge &	(ii) General science & Technology
Awareness -	(iii) Indian constitution
25%	(iv) Indian History
	(v) Indian culture
	(vi) Indian geography
	(vii) General polity
	(viii) Sports: championships/ winners/number of players
	(ix) Other misc. issues related to General Knowledge
Reasoning	(i) Coding & decoding
Ability- 25%	(ii) Series (number & alphabet)
	(iii) Figure classification
	(vi) Relationship concepts
	(v) Distance & directions
	(vi) Visual memory
	(vii) Spiral orientation
	(viii) Other basic concepts of reasoning
Numerical	(i) Basics ((2X2) (3X3) multiplications) squares
Ability - 25%	(ii) Mixed fractions
,	(iii) Averages
	(iv) Percentages
	(v) Profit & loss, Discount, ratio
	(vi) Time & work
	(vii) Simple interest, compound interest
	(viii) Simple interest, compound interest
Trade	
Awareness-	(i) Management of inland vessels under all conditions
25%	(ii) Knowledge of storm and distress signals
	(iii) Knowledge of the compass
	(iv) The rules of the road as regards to both, sailing vessels and
Master	mechanically propelled vessels, their regulation, lights, fog and sound
_evel)	signals.
	(v) The marking and use of the lead line.
	(vi) Steps to be taken in the event of vessel grounding.
	(vii) Management of inland vessels under tow or when towed or pushing.
	(viii) Questions on carriage of iron ore, coal, Petroleum Products, cement
	fly ash & containers.
	(ix) The provisions of the rules made by IWAI in respect of Life Saving and
	Fire Appliances and Conduct of vessels.
	(x) Provisions of the rules with regards to carriage of passengers.
	(xi) Knowledge of Loading Marks and Stability of Inland vessels.
	(xii) Knowledge of Inland Vessel act
	(xiii) Knowledge of GPS, DGPS, VHF, Radar and Echo sounder for safe
TE MATERIAL VIEW	navigation

SYLLABUS OF WRITTEN EXAMINATION FOR THE POST OF SI (ENGINE DRIVER) (Objective type questions with multiple choice answers to be answered on OMR Answer Sheet) Time-02 Hrs (100 Questions & 100 Marks)

(a) General Knowledge & Awareness	- 25 Questions	-25 Marks
(b) Reasoning Ability	- 25 Questions	-25 Marks
(c) Numerical Ability	- 25 Questions	-25 Marks
(d) Trade Awareness	- 25 Questions	-25 Marks

Standard and syllabus for Written Examination as under :-

General	(I) Current Affairs (Events related to India its neighbouring countries)	
Knowledge &		
Awareness -	(iii) Indian constitution	
25%	(iv) Indian History	
	(v) Indian culture	
	(vi) Indian geography	
	(vii) General polity	
	(viii) Sports: championships/ winners/number of players	
	(ix) Other misc, issues related to General Knowledge	
Reasoning	(i) Coding & decoding	
Ability- 25%	(ii) Series (number & alphabet)	
	(iii) Figure classification	
	(vi) Relationship concepts	
	(v) Distance & directions	
	(vi) Visual memory	
	(vii) Spiral orientation	
	(viii) Other basic concepts of reasoning	
Numerical	(i) Basics ((2X2) (3X3) multiplications) squares	
Ability – 25%	(ii) Mixed fractions	
	(iii) Averages	
	(iv) Percentages	
	(v) Profit & loss, Discount, ratio	
	(vi) time & work	
	(vii) Simple interest, compound interest	
	(viii) Simple mensuration	
Trade	(i) Principles and working of Internal Combustion Engines.	
Awareness-	(ii) Fuel system, lubrication system and cooling system of engines.	
25% (1st Class	(iii) Valve setting and injector setting of marine engine.	
Engine Driver	(iv) Trouble shooting of engines.	
Level)	(v) Replacement of various lines and cylinder head of engines with	
	appropriate knowledge of Torque.	
	(vi) Overhauling of engine.	
	(vii) Adjustment of working path of engine to get optimum efficiency of	
	engine.	
	(viii) The provisions of the Inland vessel rules for Life Saving, Fire	
	Appliances and general discipline.	

SYLLABUS OF WRITTEN EXAMINATION FOR THE POST OF SI (WORKSHOP) 3. (Objective type questions with multiple choice answers to be answered on OMR Answer Sheet) Time-02 Hrs (100 Questions & 100 Marks)

(a) General Knowledge & Awareness	- 25 Questions	-25 Marks
(b) Reasoning Ability	- 25 Questions	-25 Marks
(c) Numerical Ability	- 25 Questions	-25 Marks
(d) Trade Awareness	- 25 Questions	-25 Marks
Standard and syllabus for Written Examination		untrion
General (I) Current Affairs (Events related		intries
Knowledge & (ii) General science & Technolog	ay .	
Awareness - (iii) Indian constitution		

General	(I) Current Affairs (Events related to India its neighbouring countries
Knowledge &	(ii) General science & Technology
Awareness -	(iii) Indian constitution
25%	(iv) Indian History
	(v) Indian culture
	(vi) Indian geography
	(vii) General polity
	(viii) Sports: championships/ winners/number of players
	(ix) Other misc, issues related to General Knowledge
Reasoning	(i) Coding & decoding
Ability- 25%	(ii) Series (number & alphabet)
	(iii) Figure classification
	(vi) Relationship concepts
	(v) Distance & directions
	(vi) Visual memory
	(vii) Spiral orientation
	(viii) Other basic concepts of reasoning
Numerical	(i) Basics ((2X2) (3X3) multiplications) squares
Ability - 25%	(ii) Mixed fractions
	(iii) Averages
	(iv) Percentages
	(v) Profit & loss, Discount, ratio
	(vi) time & work
	(vii) Simple interest, compound interest
	(viii) Simple mensuration
Trade	(i) Units of measurement
Awareness-	(ii) Internal combustion engines
25%	(iii) Cycles of 2 stroke and 4 stroke engines
	(iv) Components of diesel and patrol engines
	(v) Fuel system, lubrication system and cooling system of engine
	(vi) Voltage, current, resistance, Miniature circuit breakers
	(vii) Electronics, diode, transistor and printed circuit board
	(viii) Pumps, gears and clutches.
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4. SYLLABUS OF WRITTEN EXAMINATION FOR THE POST OF HC (MASTER), HC (ENGINE DRIVER), HC (WORKSHOP) AND CT (CREW)

(Objective type questions with multiple choice answers to be answered on OMR Answer Sheet) Time-02 Hrs (100 Questions & 100 Marks)

(a) General Knowledge & Awareness	- 35 Questions	-35 Marks
(b) Reasoning Ability	- 35 Questions	-35 Marks
(c) Numerical Ability	- 30 Questions	-30 Marks

Standard and syllabus for Written Examination as under :-

General	(I) Current Affairs (Events related to India)
Knowledge &	(ii) Indian constitution
Awareness -	(iii) Indian History and geography
35%	(iv) General polity
	(v) Sports: championships/ winners/number of players
	(vi) Other misc. issues related to General Knowledge
Reasoning	(i) Coding & decoding
Ability- 35%	(ii) Series (number)
	(iii) Alphabet (position based)
	(vi) Relationship concepts
	(v) Distance & directions
	(vi) Arithmetic no. series
	(vii) Other basic concepts of reasoning
Numerical	(i) Basics (2X2) multiplications)
Ability – 30%	(ii) Mixed fractions
	(iii) Averages
	(iv) Percentages
	(v) Profit & loss
	(vi) Time & distance
	(vii) Simple interest, compound interest
	(viii) Simple mensuration