(d) Extra Master.

	Duration of Paper. Hours.	Marks.
Mathematics	3	200
Science	3	200
Navigation	3	150
Chart Work	2	150
Chart Construction and Surveying	3	150
Magnetism	3	200
Ship Construction	3	200
Commercial Knowledge	2	150
Oceanography	3	100
		1,500

(e) Second Mate (Home Trade).

Arithmetic and Navigation	2	120
Dictation		50
		170

(f) Mate (Home Trade).

Arithmetic and Navigation	2	160
Dictation		50
Chart Work	3	150
		360

(g) Master (Home Trade).

Navigation	2	100
Navigation	3	100
Chart Work	3	150
English	1½	100
		450

(h) Master of a Cargo-vessel under 25 Tons or a Fishing-vessel.

Navigation and Arithmetic	2	110
Dictation		50
Chart Work	3	150
		310

(i) Master of a River-steamer or of a Sailing-vessel plying within Harbour or River Limits.

Arithmetic	2	100
Dictation		50
		150

155. Corrections by Tables.—In the Knowledge of Principles paper for second mate the corrections by inspection of tables given in some of the works on navigation will not be allowed ; every correction must appear on the papers of the candidates. (138.)

156. Candidates may use own Method.—Candidates will be allowed to work out the various problems according to any method they have been accustomed to use, provided such method is correct in principle. (139.)

157. Degree of Precision required.—When making calculations for obtaining a ship's position candidates are expected to work to 0·2 of a minute of arc and to the nearest second of time.

The method of calculation used in obtaining a position-line should be capable of giving an answer within 0·5 of a mile.

In calculation of compass errors, bearings, and courses, the answer should be worked to within 0·25 of a degree, but in chart work 0·5 of a degree is sufficient.

In calculating the correction to apply to soundings the candidate is not required to work to the exact inch, as is sometimes done. It will be sufficient if he brings his answer within half a foot or so of a precise result. (140.)

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