

his approval, together with the report of the examination on the Forms Exn. 14 and Exn. 34. The envelopes in which the examination-papers are returned to the Principal Examiner must be carefully sealed with the official seal at both the top and bottom, and this must be done under the eye of the Examiner.

151. **Examination in Navigation.**—The whole of the written portion of the examination will be taken on the marks system. The candidate will be furnished with sheets of the blank ruled paper (Exn. 30) which is supplied for the purpose, with instructions that he is to work or write only on one side of the paper, and to answer in a clear and legible hand each of the questions on the paper, and to commence each answer by writing down the number of the question to which it relates in the margin. Marks will be allotted for each question, and candidates will be required to obtain 75 per cent. of the total marks in order to pass for an ordinary certificate, and 85 per cent. for an extra master. Papers will not be handed back to candidates for correction.

152. **Compass-deviation.**—In answering questions on the tentative method of compass-adjustment the candidate will be tested by Beall's compass deviascope.

153. **Barometer, Tides, &c.**—The examination on the barometer, thermometer, and hydrometer, prevailing winds and currents of the globe, trade routes, and tides, will be conducted orally; and the questions asked by the Examiner, which will be constantly varied, will be confined to and based on the information given in the text-books mentioned in Appendix K. Candidates will be required to have a fair and intelligent knowledge of the contents of those books.

154. **Sextant.**—Particular attention should be paid to the sextant, the examination in which will be conducted orally and practically. Every candidate will be required to measure both vertical and horizontal angles, and will be examined practically as to his knowledge of the adjustments and the use of the various screws; he must be able to read correctly on and off the arc, and he must also be able to find the index error both by the horizon and by the sun.

155. **Corrections by Tables.**—The corrections by inspection of tables given in some of the works on navigation—*e.g.*, Tables IX, XI, and XXI, in Norrie's Epitome—will not be allowed to candidates for foreign-going certificates; every correction must appear on the papers of the candidates.

156. **Degree of Precision required.**—Degree of precision required in the solution of the problems:—

- (a.) Candidates are expected to work their problems to the nearest half-minute of arc and to the nearest second in time.
- (b.) In interpolating for the correct deviation to be applied in solving the chart questions it will usually be sufficient if the candidate works throughout with the nearest degree of deviation taken from the deviation-card; and, even in cases where the deviations may vary but little, the nearest half-degree used throughout will be sufficiently precise. It is not necessary that the candidate should waste his time in solving the course to odd minutes, as is sometimes done.
- (c.) 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.

157. **Candidates may use Own Method.**—Candidates will be allowed to work out the various problems according to the method and the tables they have been accustomed to use.

158. **Supplementary viva voce.**—Candidates will be examined orally as to their knowledge of all their written and worked papers.

159. **No Candidate to be examined twice in a Week.**—A candidate will not be allowed to undergo examination twice in the same week, unless, under very special and urgent circumstances, the Marine Department sees fit to relax this rule. In that case a different set of problems should be given to the candidate.

#### TEMPORARY MODIFICATIONS IN THE REGULATIONS DUE TO WAR CONDITIONS.

160. **Examination of Enemy Aliens.**—So long as the war lasts no subject of an enemy State will be allowed to present himself for examination for a certificate of competency in the mercantile marine or the sea-fishing service.