

IN NAVIGATION.—As the vessels which such Masters will command, frequently make long voyages, to the East Indies, Pacific, &c., the candidate will be required to work a lunar observation by both sun and star to determine the latitude by the moon and star, by Polar Star off the meridian, and also by double altitudes of the sun, and to verify the result by Sumner's Method. He must be able to calculate the altitudes of the sun or star when they cannot be observed, for the purpose of lunars—to find the error of a watch by the method of equal altitudes—and to correct the altitudes observed with an artificial horizon.

He must understand how to observe and apply the deviation of the compass, and to deduce the set and rate of the current from D. R. and from observation. He will be required to explain the nature of Great Circle Sailing, and know how to apply practically that knowledge; but he will not be required to go into the calculations. He must be acquainted with the law of storms so far as to know how he may probably best escape those tempests common to the East and West Indies, and known as hurricanes.

IN SEAMANSHIP.—The extra examination will consist of an inquiry into the competency of the party to heave a ship down, in case of accident befalling her abroad; to get lower masts and other heavy weights in and out; how to construct rafts, and as to his resources for the preservation of the ship's crew in the event of wreck, and in such operations of a like nature as the examiner may consider necessary.

The candidates will be allowed to work out the various problems according to the method and tables they have been accustomed to use, and will be allowed five hours to perform the work; at the expiration of which, if they have not finished, they will be declared to have failed, unless the Local Marine Board see fit to extend the time.