

7. CHART.

Time allowed 2 hours.

1. On 5th September, 1925, at 10 h. 58 m., when making for Spithead in hazy weather, steering N. 67° W. by compass and steaming 10 knots, Bembridge Fort flagstaff was sighted bearing N. 85° W. by compass. At 11 h. 07 m., when the Warner Lt.-V. was sighted bearing N. 27° W. by compass, the course was altered to N. 24° W. by compass. At 11 h. 30 m., when Noman's Fort and St. Helen's Fort bore in transit, the course was changed to N. 50° W. by compass. At noon, when Spit Fort and Gilkicker Fort bore S. 64° E. by compass, the ship was steadied on N. 64° W. by compass. At 12 h. 12 m., when off Bramble Bank buoy, the following angles were taken: Old Castle Point (bathhouse) 51°, Trinity Church 22°, Egypt Point Lt.-Ho.

[NOTE.—When steering the first and second courses the tidal stream set N. 54° W. (mag.) at 2 knots; and west (mag.) of unknown strength when steering the third and fourth courses.

Using deviation-card No. 4, find the magnetic courses and distances made good, the average speed during the run, the latitude and longitude at noon, and the magnetic bearing and distance of Spit Fort from the intersection of the second and third courses.

Find also the expected height of the tide above chart datum at Hythe at 01 h. 08 m. standard time, using the special table on page 360.

2. Find the course to steer by compass from Spit Fort Lt., bearing 074° and distant 18 cables, to Spit Fort, bearing 331° and distant 23 cables, to counteract the effect of the tide as indicated on the chart 1 hour after H.W. at Portsmouth, ship steaming 8 knots; also the distance the ship would then make good in 30 minutes.

8. ESSAY.

Time allowed 2 hours.

Meteorology or other subject, as may be selected by the Examiner.

APPENDIX K.

194. Sea Service required to qualify for Examination for Certificates of Competency:—

The following is a condensed statement of the sea service required to qualify in each of the various grades of certificates of competency. Where service as an officer is required it is shown in tabular form. The letters F.G. are used as denoting foreign-going; and H.T. as denoting home trade: thus, 1 F.G. in the first column of the table showing the officer's service for a first mate's certificate means one year's service in foreign-going ships; mate H.T. in the last column means mate of a home-trade ship; 1½ H.T. in the first column means a year and a half's service in the home trade; and so on.

A candidate for an ordinary (square-rigged) certificate must prove that at least twelve months of his service has been spent in square-rigged sailing-ships, and a candidate for a fore-and-aft certificate must prove that at least twelve months of his service has been spent in sailing-ships, either square-rigged or fore-and-aft-rigged.

CERTIFICATES FOR FOREIGN-GOING SHIPS.

Second Mate.

Minimum age, 18 years. Minimum sea service, 4 F.G. or 6 H.T.
No officer's service required.

Only Mate.

Minimum age, 19 years. Minimum sea service, 5 F.G. or 7½ H.T.
No officer's service required.