

- (c.) Opposite each quantity in the computation he should put the letters denoting the part of the triangle which it represents, writing "comp." before the letters when the quantity is the complement of that part of the triangle.

Candidates will not be required to enter into the mathematical investigation of the rules and formulæ used in the solution of the problems involving oblique-angled spherical triangles, but credit will be given to any candidate showing such knowledge. When, however, a problem or part of a problem is solved by right-angled spherical trigonometry, the simple process of deducing the formula from the figure by Napier's rules for circular parts or other method must be shown.

Where a problem is solved by right-angled plane trigonometry, the simple process of deducing the formula from the figure for each of the computations in it must be shown.

The rule for finding the latitude by meridian altitude must be proved by the figure.

Protractors must not be used in the chart-construction problem, either for setting off variation or laying off positions. All sketches and drawings required in the paper on naval architecture should be neatly done on paper supplied by the Examiner.

76. Examination in Seamanship.—In addition to the qualifications required of an ordinary master, an extra master will be expected to give satisfactory answers to any questions in practical seamanship that the Examiner may put to him.

EXTRA CERTIFICATES, STEAMSHIPS.

77. Extra Certificates, Steamships.—Extra certificates for steamships will also be issued, subject to the examination described below, to officers who can show the necessary service in steamships. The certificates will be marked "*For steamships only,*" and will only entitle the holders to go to sea as masters of steamships.

The examination is open to all who are qualified to go up for a certificate as master of a foreign-going steamship, or who have already obtained this certificate. (See also para. 161.) It is open also to candidates who have failed in the examination for an extra master's certificate to show the requisite knowledge of the management of square-rigged sailing-vessels, provided they can prove the necessary amount of officer's service in steamships. (See para. 20.)

78. Examination in Navigation.—The examination in navigation for an extra master's certificate for steamships will be precisely the same as that prescribed for an extra master's certificate.

79. Examination in Seamanship.—In addition to the qualifications required of a master of a foreign-going steamship, the extra master will be expected to give satisfactory answers to any questions appertaining to the management of a steamship that the Examiner may put to him.

CERTIFICATES FOR PLEASURE-YACHTS.

80. Yacht Certificates.—The examination for these certificates is purely voluntary, and is confined to persons who command their own British seagoing pleasure-yachts. A master of a yacht who is not also the sole owner, or who is under twenty-one years of age, is not eligible for examination.

Description of Certificate.—Only one description of certificate will be issued, whether the yacht is foreign-going or cruises within the home-trade limits.

The certificate will not entitle the holder to command any vessel except the pleasure yacht or yachts of which he is at the time the sole registered owner.

No Sea Service required.—Candidates are not required to have served any specified time afloat, as it is believed that their sea-knowledge will be sufficiently tested by the examination they will have to pass in seamanship.

Statutory Declaration necessary.—Testimonials of service need not be shown, but a candidate for examination will be required to produce a statutory declaration to the effect (1) that he is sole owner of the yacht; (2) that the yacht is seagoing; (3) that it is not to be used for trading purposes. He will also be required to fill up the form of application (Form Exn. 2), and pay the fee of £2 at a mercantile marine office, as prescribed in para. 24.

In all other respects, except that the candidate will not be required to produce a first-aid certificate, the regulations relating to examinations of masters of foreign-going ships will apply in these cases.