

RULES AND SYLLABI FOR THE PROFESSIONAL EXAMINATIONS
SUB DIVISION – 1(b) – HYDROGRAPHIC SURVEYING

Sub – Division – 1(b) “ Hydrographic Surveying”: There are four examinations as below:-

- (a) First Examinations
- (b) Intermediate Examinations
- (c) Final Examinations
- (d) Direct Final Examinations

The Examinations are normally conducted commencing from the fourth Monday (or the day following it, in case the Monday happens to be holiday) in September each year.

Fees for the various examinations are (Subject to revised from time to time):-

First Examination : Rs. 6200.00 (including enrollment)
Intermediate Examinations : Rs. 7200.00 (including enrollment)
Final Examinations : Rs. 5700.00
Direct Final Examinations : Rs. 8700.00 (including enrollment)

Note : Examination fee once paid is neither refundable nor transferable to a subsequent examination or to any other account.

In all matters connected with the Examinations, the decision of the Council shall be final and binding on candidates.

Eligibility for enrolment as Student Member: A student must be above 16 years of age and have passed the Higher Secondary (10+2) system) examinations with Mathematics, Physics and Chemistry of recognized Institution / board.

There are three examinations for 10+2 PCM candidates :-

- (a) First Examinations
- (b) Intermediate Examinations
- (c) Final Examinations

Subjects of First Examinations:-

| S.No. | Subjects | Maximum Marks |
|-------|---|---------------|
| 1. | Mathematics (Pure and Applied) | 200 |
| 2. | Physics / Measurement Science | 150 |
| 3. | Physical Geography & Elementary Geology | 100 |
| 4. | Elementary Cartography & Map Reproduction | 100 |
| 5. | Elementary Seamanship & Navigation | 100 |
| 6. | Elementary Surveying | 100 |
| 7. | Hydrographic Surveying | 150 |

- (a) Intermediate Examinations held in the month of Sept/Oct every year.

Intermediate Examinations Must have passed First Examination and have attained the age of 19 years or Degree/Diploma in Civil Engineering or have undergone Basic Hydrographic Course / SR-I Course from NIH, Goa or Meteorological I Class course from School of Naval Oceanography and meteorology.

Subjects of Intermediate Examinations:-

| S.No. | Subjects | Maximum Marks |
|-------|---|---------------|
| 1. | Mathematics and Physics / Measurement Science | 100 |
| 2. | Measurement Apparatus and System | 100 |
| 3. | Terrestrial Surveys | 100 |
| 4. | Marine Surveys | 100 |
| 5. | Automated Data Gathering and Processing & Environmental Science | 100 |
| 6. | Law of the Sea and Nautical Science | 100 |
| 7. | Survey Computations | 100 |

Final Examinations : Must have passed the Intermediate Examinations

Subjects of Final Examinations:-

| S.No. | Subjects | Maximum Marks |
|------------------|--|---------------|
| Part - I | | |
| 1. | Mathematics and Physics / Measurement Science (Advanced) | 100 |
| 2. | Measurement Apparatus and System (Advanced) | 100 |
| 3. | Terrestrial Surveys (Advanced) | 100 |
| 4. | Marine Surveys (Advanced) | 100 |
| 5. | Automated Data Gathering and Processing & Environmental Science (Advanced) | 100 |
| 6. | Law of the Sea and Nautical Science (Advanced) | 100 |
| 7. | Survey Computations (Advanced) | 100 |
| Part - II | | |
| 1. | Thesis & Viva Voce | 100 |

Direct Final Examinations : A candidate for the Direct Final Examination must have passed Survey Recorder Class I Course from National Institute of Hydrography, Goa or equivalent course from an Internationally recognized Hydrographic Institution or Organization.

OR

Must have passed the First Examination of the Hughly River Surveying Service.

OR

Must have undergone practical training for a minimum period of 05 years under a Fellow or Member in Sub Division 1(b) in the particular discipline.

Experience for Direct Final Examination:- Must have been in an organized Surveying Service of the Central Government or State Government e.g. Naval Hydrographic Department, Hughly River Surveying Service, Inland Waterways Authority of India (IWAI). Minor Pots Survey Organization, Hydrographic

Surveying Organization of Port Trusts / State Governments / Public Sector Undertaking / Commercial Organizations.

Pass Marks: Candidates for the various examinations are required to score the under mentioned minimum percentage marks to become eligible for being declared as successful:-

If a candidate appears for all the subjects of an examination at a time, he is required to score minimum of 50% marks in the aggregate and a minimum of 40% marks in each subject.

Exempted Subjects:- (First Examinations)

Pass in Class XII Examination with not less than 50% marks in the following subjects:-

1. Mathematics (Pure & Applied)
2. Physics