

RULES AND SYLLABI FOR THE PROFESSIONAL EXAMINATIONS
SUB DIVISION – 1(a) – LAND SURVEYING

Sub – Division – 1(a) “Land 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:-

	Subject	Marks
Group – 1	English	100
	Basic Economics	100
	Mathematics	100
	Physics	100
	Computer Science	100
Group – II	Engineering Graphics & Elementary Cartography	100
	Elementary Topographical Surveying	100
	Physical Geography & Elementary Geology	100
	Electronics & Instrumentation	100
	Basic Photogrammetry & Remote Sensing	100

Intermediate Examinations : Eligibility : Must have passed First Examination and have attained the age of 19 years.

Subjects of Intermediate Examinations:-

	<u>Subjects</u>	<u>Marks</u>
Group – 1	Numerical Analysis & Computer Programming	100
	Principles of Management	100
	Disaster Management	100
	Environmental Engineering	100
	DBMS and System Analysis	100
Group – II	Adjustment Computations & Statistical Analysis	150
	Advanced Geodesy	100
	Digital Photogrammetry	150
	Remote Sensing	100
	GIS & GPS Applications	100
Group – III	Topographical Surveying	100
	Digital Cartography & Map Projections	100
	Engineering Surveys	100
	Basic Geodesy and Field Astronomy	100
	Cadastral Surveys & Land Laws	100
	Modern Surveying Instruments	100

Final Examinations: Eligibility for Final Examinations : Must have passed the Intermediate Examinations

Subjects of Final Examinations:-

	<u>Subject</u>	<u>Marks</u>
Group – 1	Digital Image Processing	100
	Map Reproduction Technology	100

Note: Apart from the above subjects of Final Examinations, the candidates has to attend/submit the following:-

Field Survey Camp	300
Project Work & Thesis	500

(d) Direct Final Examinations : A candidate for the Direct Final Examination must be age of 23 years and must have at least 5 years approved training & experience in responsible professional capacity in an office approved by the Council.

A Graduate in Civil Engineering or a person holding equivalent qualifications is eligible to appear in the Direct Final Examination even before attaining the age of 23 years provided he has been engaged in the profession for 2 years prior to the due date of receipt of application for appearing in the examination.

Subjects of Direct Final Examinations:-

	<u>Subject</u>	<u>Marks</u>
Group – 1	Digital Image Processing	100
	DBMS & System Analysis	100
	GIS & GPS Applications	100
Group – II	Adjustment Computations & Statistical Analysis	150
	Advanced Geodesy	100
	Digital Photogrammetry	150
	Remote Sensing	100
Group – III	Topographical Surveying	100
	Digital Cartography & Map Projections	100
	Engineering Surveys	100
	Cadastral Surveys & Land Laws	100
	Project Work & Thesis	500

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:-

- (a) 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.
- (b) For passing in each Group, a candidate is required to score minimum of 50% marks in aggregate and 40% marks in each subject, if he appears in all subjects at a time.

Exempted Subjects:- (First Examinations)

For BA/B.Sc. :- Any of the following subjects, which candidate taken in the BA/B.Sc. examinations:-

- (a) Mathematics (Pure & Applied)
- (b) Physics
- (c) Elementary Geology & Physical Geography

For I.A./I.Sc. :- Any of the following subjects, which candidate taken in I.A./I.Sc. and scored more than 50% marks:-

- (a) Mathematics (Pure & Applied)
- (b) Physics

Candidates who have successfully completed survey training in the Survey of India in accordance with the syllabus laid down for Group C Division I, Group B and Group A Officers, for not less than one year or equivalent training are exempted in the following subjects:-

- (a) Engineering Graphic and Elementary Cartography
- (b) Elementary Topographical Surveying
- (c) Physical Geography & Elementary Geology

Survey Training in State cadastral Survey Training Institute or equivalent :-

- (a) Engineering Graphic and Elementary Cartography
- (b) Physical Geography & Elementary Geology

Exempted Subjects:- (Intermediate Examinations)

Post Graduate with M.E. Degree in Photogrammetry and Advanced Surveying:-

- (a) Digital Photogrammetry