

SYLLABUS FOR SURVEYOR-I EXAMINATION UNDER LAND REVENUE
& SETTLEMENT DEPARTMENT-2018

GENERAL ENGLISH (100 marks)

- (a) Essay Writing (Conventional) 20 Marks
- (b) Idioms & Phrases (Objective Type)..... 16 Marks
- (c) Comprehension of given passages (Objective Type) 16 Marks
- (d) Grammar (Objective Type) 16 Marks
Parts of Speech : Nouns, Adjective, Verb, Adverb, Preposition, etc.
- (e) Composition (Objective Type)..... 16 Marks
 i)Analysis of complex and compound sentences
 ii)Transformation of sentences
 iii)Synthesis of sentences
- (f) Correct usage and vocabularies (Objective Type) 16 Marks

TECHNICAL PAPER I(150 Marks)

1. Fundamentals of Surveying 40 Marks
Concepts of Surveying and Mapping; Linear and Angular Measurement;
Control Survey; Concepts about Accuracy; Scanning; Geo-Referencing;
Concepts and Applications of Total Station Techniques; GPS and its
Modern Trends
2. Photogrammetry 40 Marks
Basic Photogrammetry; Digital Photogrammetry; Remote Sensing
3. Cartography 30 Marks
Datum; Map Projection; Concepts of Geodesy; Coordinate System;
Concepts of Digital mapping and Digitisation

4. Cadastral survey 40 Marks
Cadastral Survey; GIS Basic; Database and DBMS; GIS Software and Application

TECHNICAL PAPER II (150 Marks)

- I GEOMETRY 40 Marks
- Triangles
- Circles
- Constructions
- II COORDINATE GEOMETRY 30 Marks
- Coordinate Geometry
- III TRIGONOMETRY 30 Marks
- Trigonometry Ratios
- Trigonometric Identities
- Heights and Distances
- III MENSURATION 30 Marks
- Area related to Circles
- Surface Areas and Volumes
- Areas of Triangle and a Quadrilateral
- IV APTITUDE TEST 20 Marks

○ **Numerical And Figurework Tests: (4 Marks)**

These tests are reflections of fluency with numbers and calculations. It shows how easily a person can think with numbers. The subject will be given a series of numbers. His/Her task is to see how the numbers go together to form a relationship with each other. He/She has to choose a number which would go next in the series.

○ **Verbal Analysis And Vocabulary Tests: (6 Marks)**

These tests measure the degree of comfort and fluency with the English language. These tests will measure how a person will reason with words. The subject will be given questions with alternative answers, that will reflect his/her command of the rule and use of English language.

○ **Visual And Spatial/3-D Ability Tests: (4 Marks)**

These tests are used to measure perceptual speed and acuity. The subject will be shown pictures where he/she is asked to identify the odd one out; or which comes next in the sequence or explores how easily he/she can see and turn around objects in space.

○ **Abstract Reasoning Tests: (6 Marks)**

This test measures the ability to analyse information and solve problems on a complex, thought based level. It measures a person's ability to quickly identify patterns, logical rules and trends in new data, integrate this information, and apply it to solve problems.

- Reference :
1. Lecture Notes on Land Records Modernisation Programme, Survey of India Chapter I-IV
 2. Class X level mathematics