

SYLLABUS FOR SURVEYOR-II UNDER
IRRIGATION & WATER RESOURCES DEPARTMENT-2019

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 30 Marks
Basic Photogrammetry; Digital Photogrammetry; Remote Sensing
3. Cartography - 40 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

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TECHNICAL PAPER II (150 Marks)

I	GEOMETRY	40 Marks
	- Triangles	
	- Circles	
	- Constructions	
II	COORDINATE GEOMETRY	30 Marks
	- Coordinate Geometry	
III	TRIGONOMETRY	30 Marks
	- Heights and Distances	
III	MENSURATION	30 Marks
	- Area related to Circles	
	- Surface Areas and Volumes	
IV	APTITUDE TEST	20 Marks

o 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.

o 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.

o 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.

o 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