

बेलडाँडी गाउँपालिका  
गाउँ कार्यपालिकाको कार्यालय  
नापी सभेक्षक पदको खुल्ला प्रतियोगितात्मक परीक्षाको पाठ्यक्रम ।



प्रथम चरण :- लिखित परीक्षा

पूर्णाङ्क :- १००

द्वितीय चरण :- अन्तर्वार्ता

पूर्णाङ्क :- ४०

**प्रथम चरण – लिखित परीक्षा योजना**

विषय	पूर्णाङ्क	उत्तीर्णाङ्क	परीक्षा प्रणाली	प्रश्न संख्या X अङ्कभार	समय
सेवा सम्बन्धी	१००	४०	वस्तुगत बहुवैकल्पिक (Multiple Choice)	५० X २ = १००	४५ मिनेट

**द्वितीय चरण:-अन्तर्वार्ता**

विषय	पूर्णाङ्क	उत्तीर्णाङ्क	परीक्षा प्रणाली	समय
अन्तर्वार्ता	२०	-	मौखिक	-

- लिखित परीक्षाको माध्यम भाषा नेपाली वा अंग्रेजी अथवा नेपाली र अंग्रेजी दुवै हुन सक्नेछ ।
- लिखित परीक्षाबाट छनौट भएका परीक्षार्थीहरूले मात्र अन्तर्वार्तामा भाग लिन पाउने छन् ।
- परीक्षामा मोबाइल, क्याल्कुलेटर वा अन्य कुनै विद्युतीय उपकरण प्रयोग गर्न पाइने छैन ।

बेलडाँडी गाउँपालिका  
गाउँ कार्यपालिकाको कार्यालय  
नापी सर्भेक्षक पदको खुल्ला प्रतियोगितात्मक परीक्षाको पाठ्यक्रम ।



## 1. Surveying and Mapping

### 1.1 Introduction

- 1.1.1 Principles of Surveying,
- 1.1.2 Definition of terms used in Surveying,
- 1.1.3 Units and measurement,
- 1.1.4 Types and constructions of Scale,
- 1.1.5 Linear and angular measurements,
- 1.1.6 Area and volume,
- 1.1.7 Bearing and convergence,
- 1.1.8 Types of errors and correction,
- 1.1.9 Solution of Triangles,
- 1.1.10 Chain Survey,
- 1.1.11 Tacheometric Survey,
- 1.1.12 Levelling,
- 1.1.13 Traversing,
- 1.1.14 Triangulation,
- 1.1.15 Trilateration,
- 1.1.16 Plane Table Survey,
- 1.1.17 GNSS (GPS) Survey,
- 1.1.18 Grid and Graticules,
- 1.1.19 Universal Transverse Mercator Projection,
- 1.1.20 Sheet design and numbering for Topographical Base Maps,
- 1.1.21 Map Scale and Symbols,
- 1.1.22 Contouring and hill shading,
- 1.1.23 Generalisation of details,
- 1.1.24 Name Collection and Accuracy of Maps.

### 1.2 Equipment and their uses

- 1.2.1 Magnetic Compass
- 1.2.2 Chain, Tapes,
- 1.2.3 Plane Table,
- 1.2.4 Theodolite,
- 1.2.5 Level,
- 1.2.6 Distance Meter,
- 1.2.7 Stereoscope,
- 1.2.8 Telescopic Alidade,
- 1.2.9 Tacheometer,
- 1.2.10 Drawing and Scribing tools and Materials,
- 1.2.11 Vacuum Contact Printer, 1.2.12
- Light Sources Process Camera,
- 1.2.13 Offset Press.

### 1.3 Survey Computations

- 1.3.1 Techniques of field book checking,
- 1.3.2 Computation of elevations from levelling field books,

बेलडाँडी गाउँपालिका  
गाउँ कार्यपालिकाको कार्यालय  
नापी सर्वेक्षक पदको खुल्ला प्रतियोगितात्मक परीक्षाको पाठ्यक्रम ।



1.3.3 Computation of Co-ordinates by traversing and triangulation Survey for third and fourth order ground control points,

1.3.4 Preparation of control chart and bench mark chart.

**2. Techniques of Map making and their use**

- 2.1 Map making procedure of small scale maps
- 2.2 Topographical base maps and large scale maps
- 2.3 Method of reconnaissance
- 2.4 Monunientation
- 2.5 Observation for Third and Fourth order control points
- 2.6 Spirit levelling methods and their procedure for establishment of third and fourth order bench marks

**3. Cadastral Survey and records**

- 3.1 Sheet design and Sheet numbering for cadastral map.
- 3.2 Control point plotting.
- 3.3 Plot (Parcel) numbering land plot survey and field book preparation.
- 3.4 Area measurements.
- 3.5 Notification and methods of land registration procedure.
- 3.6 Classification of Land
- 3.7 Preparation of land records and land ownership Certificate.
- 3.8 Departmental Circular related to the registration of land ownership.
- 3.9 Care and maintenance of field books and cadastral plans.
- 3.10 Delineation of field plot boundary.
- 3.11 Up-dating of cadastral maps land field books.

**4. Engineering Survey**

- 4.1 Irrigation
  - 4.1.1 Surveying and mapping for intake and command area and proposed cannal,
  - 4.1.2 Alignment Survey for Canal,
  - 4.1.3 X-Section and L-Section or Canal alignment.
- 4.2 Roads
  - 4.2.1 Alignment Survey,
  - 4.2.2 Setting out Curves,
  - 4.2.3 X-Section and L-Section of road alignment, 4.2.4 Establishment of bridge abutments.
- 4.3 Hydro electric power
  - 4.3.1 Surveying for intake and power house site,
  - 4.3.2 Alignment Survey for transmission line.
- 4.4 Surveying for Building Construction
  - 4.4.1 Large scale mapping for building design,

बेलडाँडी गाउँपालिका  
गाउँ कार्यपालिकाको कार्यालय  
नापी सर्भेक्षक पदको खुल्ला प्रतियोगितात्मक परीक्षाको पाठ्यक्रम ।



- 4.4.2 Selection of building site, 4.4.3  
Demarcation of building site,
- 4.4.4 Urban Survey.
- 4.5 Mining and Geological Survey
  - 4.5.1 Instrument used for the mining and Geological Survey,
  - 4.5.2 Idea of Geological land mineral maps, Geological and Geomorphological  
Symbols,
  - 4.5.3 Land use map,
  - 4.5.4 Tunnel Survey.
- 5. कानून सम्बन्धी सामान्य ज्ञान
  - 5.1 नेपालको संविधान (भाग १, २, ३, ४, ५ १७ र १८ तथा अनुसूचीहरू)
  - 5.2 स्थानीय सरकार सञ्चालन ऐन, २०७४ मा जग्गा जमीन सम्बन्धी व्यवस्था
  - 5.3 जग्गा (नाप जाँच) ऐन, २०१९
  - 5.4 जग्गा (नाप जाँच) नियमावली, २०३२
  - 5.5 मालपोत ऐन, २०३४ (जग्गा दर्ता, नाप नक्सा सम्बन्धी व्यवस्था)
  - 5.6 मालपोत नियमावली, २०५५ (जग्गा दर्ता, नाप नक्सा सम्बन्धी व्यवस्था)
  - 5.7 मोही सम्बन्धी व्यवस्था
  - 5.8 फिल्ड सर्जमिन मुचुल्का तयार गर्ने विधि