

पलाँता गाउँपालिका गाउँ कार्यपालिको कार्यालय

पलाता क्रालीकोट कर्णाली प्रक्रियानीफील

पत्र संख्याः २०८१/०८२

मिति: २०८१/११/२०

ने.सं.११४५ चिल्लाथ्व ५ मंगलबार

पलाता गाउपालिकाको असिस्टेन्ट सब ईन्जिनियर(चौंथो) पदको करार पदपुर्ति सम्बन्धि पाठ्यक्रम

परिक्षाको किसिमः लिखित र अन्तरवार्ता

लिखित परिक्षाः

| विपय | पूर्णाङ्क | उतिर्णाङ्क | परिक्षा प्रणाली | पत्र संख्याx अंक भार | समय |
|------------------|-----------|------------|--|------------------------|----------|
| सेवा सम्वन्धि | 900 | 80 | वस्तुगत वहुवैकल्पिक (Multiple Choice) | ५० प्रश्न x २ अंक= १०० | ४५ मिनेट |

अन्तर्वार्ताः

| विपय | पूर्णाङ्ग | परिक्षा प्रणाली |
|--------------|-----------|-----------------|
| अन्तर्वार्ता | ३० | मौखिक |

नोटः

- 🗲 लिखित परिक्षाको माध्यम भाषा अंग्रेजी हुनेछ।
- वस्तुगत वहुवैकल्पिक(Multiple Choice) प्रश्नहरुको गलत उत्तर दिएमा वा नदिएमा अंक कट्टा गरिने छैन।
- > लिखित परिक्षावाट छनोट भएका उम्मेद्वारहरुलाई मात्र अन्तर्वार्तामा सामेल गराईने छ।

1. Engineering Drawing

- 1.1 Unit, Dimension and their conversion with special reference to SI system
- 1.2 Elementary idea of drawing (object); Building drawings
- 1.3 Drafting techniques and methods in common practice
 - 1.3.1 Different types of lines and effects
 - 1.3.2 Vertical line, horizontal line & inclined line (thick, thin, dark, light)
 - 1.3.3 Representation of different materials: stone, timber, glass, metal, brick, concrete, sand, earth, tile, plaster
 - 1.3.4 Dimensioning: element to element, centre to centre and overall dimensioning
- 1.4 Measured Drawing
 - 1.4.1 Methods of measurement of horizontal and vertical dimensions
 - 1.4.2 Sectional measurements
 - 1.4.3 Scales: choice, use, and conversion
- 1.5 Working Drawing
 - 1.5.1 Significance of detailing in terms of accuracy of estimation, bill of quantities and construction supervision

"स्वच्छ, समृद्ध र सुसंस्कृत पलाँता"

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प्र. प्र. अधिकृत ९८५८३२०८३८

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पलाँता गाउँपालिका गाउँ कार्यपालिको कार्यालय

अलुन्नि किल्लिकोट कणालि प्रदेश, नेपाल

पत्र संख्याः २०८१/०८२

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1.5.2 Structural working drawings and structural detail: column, beam, slab, foundation, and other structural elements

2. Estimating, Costing, and Supervision

- 2.1 Purpose of estimating
- 2.2 Methods of estimate
- 2.3 Types of estimates (preliminary estimate, approximate quantity estimate, detailed estimate, revised estimate)
- 2.4 Standard estimate formats of the government of Nepal
- 2.5 Rate analysis and Norms
- 2.6 Estimating items of construction works
- 2.7 Estimate of civil works, and site development work
- 2.8 Specifications: purpose, types, and necessity
- 2.9 Concept and purpose of property valuation
- 2.10 Supervision

3. Engineering Survey

- 3.1 Basics of surveying, its importance, and types
- 3.2 Scale, plans, maps
- 3.3 Conventional signs and system of field booking of surveying
- 3.4 Basics of Chain, Compass, Plane table, Levelling, and Theodolite Total station and GPS
- 3.5 Levelling, Classification of leveling works, Methods of leveling, Levelling instruments and accessories, Principles of leveling
- 3.6 Setting Out: Small buildings

4. Construction Materials

- 4.1 Rocks/stone: types of rocks, their characteristics & properties of good stone
- 4.2 Aggregates (fine & coarse)
- 4.3 Cement: Different types of cement and its properties; Admixtures
- 4.4 Metal and alloys
- 4.5 Brick: types of bricks & sizes of bricks available in Nepal
- 4.6 Lime and Surkhi: types, properties, and its uses
- 4.7 Mortar: types, properties, and its uses along with proportions
- 4.8 Paints and varnishes: constituents, types, and its uses
- 4.9 Floor finishes-punning, tiles, mosaic, clay, concrete, vinyl, marble, flagstones, wooden boarding, parquet

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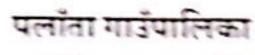
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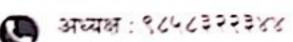
- 4.10 Wall finishes: plasters (cement, lime, and mud), punning, and cladding (wooden, stone, tiles, marbles)
- 4.11 Roofing materials
- 4.12 Use of local construction materials

Construction Technology 5.

- 5.1 Description and Objectives
- 5.2 Types of construction works
 - 5.2.1 Masonry works; Concrete works; Flooring works; Finishing works
 - 5.2.2 Construction of building components
 - 5.2.3 Earthquake Resistant Building Construction
 - 5.2.4 Temporary constructions
 - 5.2.5 Rural technology and alternative energy
- 5.3 Foundation and bearing capacity
 - 5.3.1 Types of foundation: shallow, deep
 - 5.3.2 Safe bearing capacity of soil and its improvement
 - Methods of excavation, shoring and dewatering 5.3.3
 - Stone/brick masonry foundation
 - Isolated, combined and raft foundation 5.3.5
 - Strap beam, foundation beam and DPC beam 5.3.6
- 5.4 Concrete technology and management
 - 5.4.1 Constituents of cement concrete (cement, aggregate, water, admixture)
 - 5.4.2 Grading of aggregates
 - 5.4.3 Water cement ratio
 - 5.4.4 Workability and strength of concrete
 - 5.4.5 Concrete mix, laying, pouring, and compaction
 - 5.4.6 Formwork
 - 5.4.7 Curing of concrete
 - 5.4.8 Storage and management of construction material
 - 5.4.9 Record keeping at a construction site (daily work done, manpower mobilized, material storage)
 - 5.4.10 Construction safety
 - 5.4.11 Scheduling tool (bar chart)

Building Services 6.

Water supply, Types of storage (underground, overhead), types of water sup pipes, and its fitting





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पलाँता माउँ पालिका गाउँ कार्यपालिका कार्यालय

प्रतामिक प्रिकेशिट कर्णाली प्रदेश जोपाल

पत्र संख्याः २०८१/०८२

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6.2 Septic tank, soak pit, vents, manhole, types of sewerage pipes

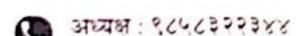
- 6.3 General principle of electrical installation and distribution, types of wiring systems (surface, conceal), safety precautions (earthing, lightening arrestors)
- 6.4 Lighting: General principle of lighting & lighting fixtures

7. Local Infrastructures

- 7.1 Roads and Bridges: Types of roads and bridges; Development of road network in Nepal; Layout and construction of trails, rural roads, motorable bridge, and Trail bridges
 - (suspension, suspended and truss bridges); Cross drains (bridges, culverts, causeways) and Side drains for roads; Retaining walls; River training works; and low-cost erosion control measures (Bio-engineering works)
- 7.2 Irrigation: Need for irrigation; Methods of irrigation; Headworks and canal network; operation and maintenance of irrigation system, Water users Association (WUA)
- 7.3 Water Supply and Sanitation: Community based water supply system; Selection of
 - the water source with adequate quantity; Water demand analysis; operation and maintenance of water supply, Concept of water safety, Concept of basic and total sanitation.

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