



पलाता गाउँपालिका
गाउँ कार्यपालिकाको कार्यालय
पलाता, कैलिकोट
कर्णाली प्रदेश, नेपाल
२०७३

पत्र संख्या: २०८१/०८२

मिति: २०८१/११/२०
ने.सं.११४५ चिल्लाथ्व ५ मंगलबार

पलाता गाउँपालिकाको असिस्टेन्ट सब ईन्जिनियर(चौथो) पदको करार पदपूर्ति सम्बन्धि पाठ्यक्रम
परिक्षाको किसिम: लिखित र अन्तरवार्ता
लिखित परिक्षा:

विषय	पूर्णाङ्क	उतिर्णाङ्क	परिक्षा प्रणाली	पत्र संख्याX अंक भार	समय
सेवा सम्बन्धि	१००	४०	वस्तुगत बहुवैकल्पिक (Multiple Choice)	५० प्रश्न X २ अंक= १००	४५ मिनेट

अन्तर्वार्ता:

विषय	पूर्णाङ्क	परिक्षा प्रणाली
अन्तर्वार्ता	३०	मौखिक

नोट:

- लिखित परिक्षाको माध्यम भाषा अंग्रेजी हुनेछ।
- वस्तुगत बहुवैकल्पिक(Multiple Choice) प्रश्नहरूको गलत उत्तर दिएमा वा नदिएमा अंक कट्टा गरिने छैन।
- लिखित परिक्षाबाट छनोट भएका उम्मेदवारहरूलाई 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 पलाता"

अध्यक्ष : ९८५८३२२३४४

प्र. प्र. अधिकृत ९८५८३२०८३८


लेखा : ९८६६९६२३१९

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गौरव नेपाल
नि.प्र.प्रशासकीय अधिकृत



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गाउँ कार्यपालिकाको कार्यालय
कणाली प्रदेश, नेपाल

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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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पलाँता गाउँपालिका
गाउँ कार्यपालिकाको कार्यालय



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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
5. **Construction Technology**
 - 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
 - 5.3.3 Methods of excavation, shoring and dewatering
 - 5.3.4 Stone/brick masonry foundation
 - 5.3.5 Isolated, combined and raft foundation
 - 5.3.6 Strap beam, foundation beam and DPC beam
 - 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)
6. **Building Services**
 - 6.1 Water supply, Types of storage (underground, overhead), types of water supply pipes, and its fitting

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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, lightning 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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