



राप्ती स्वास्थ्य विज्ञान प्रतिष्ठान Rapti Academy of Health Sciences

(राप्ती स्वास्थ्य विज्ञान प्रतिष्ठान ऐन, २०७४ अन्तर्गत स्थापित)

घोराही, दाङ, नेपाल | Ghorahi, Dang, Nepal

प.सं. : २०८३/०८४
च.नं. : ५९९

मिति: २०८३/०६/३०

सिभिल ईन्जिनियर पदको लिखित परीक्षा सम्बन्धी सूचना।

यस प्रतिष्ठानद्वारा मिति २०८३/०५/२९ मा प्रकाशित सूचना अनुसार सिभिल इन्जिनियर (तह- ७) पदको लागि निर्धारित समयावधि भित्र रितपूर्वक आवेदन दिने उम्मेदवारहरूको लिखित परीक्षा निम्न मिति, समय र स्थानमा हुने भएकोले प्रवेश पत्र सहित उपस्थित हुन सम्बन्धित सबैको जानकारीको लागि निर्णयानुसार सूचित गरिन्छ ।

निम्न:

सि.नं.	पद	तह	लिखित परीक्षा मिति र समय
१	सिभिल इन्जिनियर	७	२०८३/०७/१८ गते, विहान १०:०० बजे

Post: Civil Engineer (Level- 7)

S.N.	Name of Candidates	Roll. No.	Remarks
1	Er. Shishir Acharya	1	
2	Er. Lalitya Nayan Chaudhary	2	
3	Er. Anil Kumar Sah	3	
4	Er. Manish Lamichhane	4	
5	Er. Aayush Regmi	5	
6	Er. Galij Shrestha	6	
7	Er. Prabesh Singh	7	
8	Er. Bikash Kumar Kapar	8	
9	Er. Prakash KC	9	
10	Er. Pratik Adhikari	10	
11	Er. Rupesh Acharya	11	
12	Er. Bishnu Aryal	12	
13	Er. Mohan Kumar Oli	13	
14	Er. Khemraj Oli	14	
15	Er. Sangita Bhattarai	15	
16	Er. Binod Kumar Pandey	16	
17	Er. Subash Pulami	17	
18	Er. Bijaya Kumar Oli	18	
19	Er. Pradeep Parajuli	19	
20	Er. Anisha Bhandari	20	
21	Er. Bidhan Sharma	21	
22	Er. Nisha Chaudhary	22	
23	Er. Sanisha Kumar K.C.	23	
24	Er. Rajeev Dhungana	24	

राप्ती स्वास्थ्य विज्ञान प्रतिष्ठान

मुख्य कार्यालय

घोराही, दाङ ।

फोन : ०८२-५६३९७३

ईमेल/Email : info@rasha.edu.np

सम्पर्क कार्यालय

बुद्धनगर नयाँबानेश्वर, काठमाडौं ।

फोन : ०१-५४३९२९५

Head Office

Ghorahi, Dang

Tel. : 082-563973

वेबसाइट/Website

Liason Office

Buddhanagar,

New Baneshwor,

Kathmandu

Tel. : ०१-५४३९२९५



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(राप्ती स्वास्थ्य विज्ञान प्रतिष्ठान ऐन, २०७४ अन्तर्गत स्थापित)

घोराही, दाङ, नेपाल | Ghorahi, Dang, Nepal

प.सं. :

च.नं.

S.N.	Name of Candidates	Roll. No.	Remarks
25	Er. Sushil Acharya (A)	25	
26	Er. Mahendra Yadav	26	
27	Er. Nitesh Ghimire	27	
28	Er. Ganesh Thapa	28	
29	Er. Shri Krishna Acharya	29	
30	Er. Mani Paudel	30	
31	Er. Dharma Raj Acharya	31	
32	Er. Yogesh Chaudhary	32	
33	Er. Jitendra Bahadur Karki	33	
34	Er. Govinda Kumar Malla	34	
35	Er. Sushil Acharya (B)	35	

स्थान: प्रतिष्ठानको नयाँ अस्पताल भवनस्थित अडिटोरियम हल, घोराही, दाङ ।

नोट:

१ उपरोक्त बाहेक कुनै उम्मेदवारले आवेदन गरेको भए आवश्यक प्रमाण सहित २०८३/०७/११ गते भित्र प्रतिष्ठानमा सम्पर्क राख्नु हुन समेत सूचित गरिन्छ ।

२. परीक्षाको प्रवेश पत्र मिति २०८३/०७/१६ गते देखि प्रतिष्ठानको प्रशासन शाखाबाट प्राप्त गर्न सकिने छ । अन्य जानकारीको लागि ०८२-५६३९७३ मा सम्पर्क गर्न सकिने छ ।

साथै, सिभिल इन्जिनियर पदको लिखित परीक्षा नेपाल इन्जिनियरिङ सेवा, सिभिल समूह अन्तर्गतका राजपत्राङ्कित तृतीय श्रेणीका पदहरूका लागि लोक सेवा आयोगबाट निर्धारित पाठ्यक्रमलाई आधार मानी सञ्चालन गरिनेछ । उक्त पाठ्यक्रममा समावेश विषय तथा विषयवस्तुसँग सम्बन्धित ज्ञान, सीप तथा व्यावहारिक पक्षलाई समेत समेटी प्रश्नपत्र तयार गरिने भएकाले सोही विषयगत क्षेत्रसँग सम्बन्धित प्रश्नहरू समावेश गरी लिखित परीक्षा सञ्चालन गरिने व्यहोरा सम्बन्धित सबैको जानकारीका लागि सूचित गरिन्छ । उक्त पाठ्यक्रम राप्ती स्वास्थ्य विज्ञान प्रतिष्ठानको वेबसाइट www.rahs.edu.np मा समेत उपलब्ध रहेको व्यहोरा जानकारी गराइन्छ ।

प्रभात किरण चौधरी

शाखा अधिकृत

शाखा अधिकृत

मुख्य कार्यालय

घोराही, दाङ ।

फोन : ०८२-५६३९७३

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लोक सेवा आयोग

नेपाल इन्जिनियरिङ सेवा सिभिल समूह अन्तर्गतका जनरल, हाइवे, हाइड्रोपावर, इरिगेशन, स्यानिटरी र एयरपोर्ट उपसमूहहरूको राजपत्राङ्कित तृतीय श्रेणीका पदहरूको खुला प्रतिस्पर्धात्मक परीक्षाको पाठ्यक्रम

यस पाठ्यक्रम योजनालाई दुई चरणमा विभाजन गरिएको छ

प्रथम चरण :- लिखित परीक्षा (Written Examination)

पूर्णाङ्क :- २००

द्वितीय चरण :- (क) सामूहिक परीक्षण (Group Test)

पूर्णाङ्क :- १०

(ख) अन्तर्वार्ता (Interview)

पूर्णाङ्क :- ३०

परीक्षा योजना (Examination Scheme)

प्रथम चरण : लिखित परीक्षा (Written Examination)

पूर्णाङ्क :- २००

पत्र	विषय	खण्ड	पूर्णाङ्क	उत्तीर्णाङ्क	परीक्षा प्रणाली		प्रश्नसंख्या × अङ्क	समय
प्रथम	General Subject	Part I: General Awareness & General Reasoning Test	१००	४०	वस्तुगत (Objective)	बहुवैकल्पिक प्रश्न (MCQs)	५० प्रश्न × १ अङ्क	१ घण्टा ३० मिनेट
		Part II: General Technical Subject					५० प्रश्न × १ अङ्क	
द्वितीय	Technical Subject		१००	४०	विषयगत (Subjective)	छोटो उत्तर लामो उत्तर	४ प्रश्न × ५ अङ्क ८ प्रश्न × १० अङ्क	३ घण्टा

द्वितीय चरण : सामूहिक परीक्षण (Group Test) र अन्तर्वार्ता (Interview)

पूर्णाङ्क :- ४०

पत्र / विषय	पूर्णाङ्क	उत्तीर्णाङ्क	परीक्षा प्रणाली	समय
सामूहिक परीक्षण (Group Test)	१०		सामूहिक छलफल (Group Discussion)	३० मिनेट
अन्तर्वार्ता (Interview)	३०		बोर्ड अन्तर्वार्ता (Board Interview)	-

द्रष्टव्य :

- लिखित परीक्षाको माध्यम भाषा नेपाली वा अंग्रेजी अथवा नेपाली र अंग्रेजी दुवै हुनेछ ।
- प्रथमपत्र र द्वितीयपत्रको लिखित परीक्षा छुट्टाछुट्टै हुनेछ ।
- वस्तुगत बहुवैकल्पिक (Multiple Choice) प्रश्नहरूको गलत उत्तर दिएमा प्रत्येक गलत उत्तर बापत २० प्रतिशत अङ्क कट्टा गरिनेछ । तर उत्तर नदिएमा त्यस बापत अङ्क दिइने छैन र अङ्क कट्टा पनि गरिने छैन ।
- बहुवैकल्पिक प्रश्नहरू हुने परीक्षामा कुनै प्रकारको क्याल्कुलेटर (Calculator) प्रयोग गर्न पाइने छैन ।
- विषयगत प्रश्नहरूको हकमा तोकिएको अंकको एउटा लामो प्रश्न वा एउटै प्रश्नका दुई वा दुई भन्दा बढी भाग (Two or more parts of a single question) वा एउटा प्रश्न अन्तर्गत दुई वा बढी टिप्पणीहरू (Short notes) सोध्न सकिने छ ।
- द्वितीय पत्रमा (विषयगत प्रश्न हुनेका हकमा) प्रत्येक खण्डका लागि छुट्टाछुट्टै उत्तरपुस्तिकाहरू हुनेछन् । परीक्षार्थीले प्रत्येक खण्डका प्रश्नहरूको उत्तर सोही खण्डको उत्तरपुस्तिकामा लेख्नुपर्नेछ ।
- यस पाठ्यक्रम योजना अन्तर्गतका पत्र/विषयका विषयवस्तुमा जेसुकै लेखिएको भए तापनि पाठ्यक्रममा परेका कानून, ऐन, नियम तथा नीतिहरू परीक्षाको मिति भन्दा ३ महिना अगाडि (संशोधन भएका वा संशोधन भई हटाईएका वा थप गरी संशोधन भई) कायम रहेकालाई यस पाठ्यक्रममा परेको सम्झनु पर्दछ ।
- प्रथम चरणको परीक्षाबाट छनौट भएका उम्मेदवारहरूलाई मात्र द्वितीय चरणको परीक्षामा सम्मिलित गराइनेछ ।
- यस भन्दा अगाडि लागू भएका माथि उल्लेखित सेवा, समूहको पाठ्यक्रम खारेज गरिएको छ ।
- पाठ्यक्रम लागू मिति : - २०८०/०७/२०

प्रथम पत्र (Paper I): General Subject

Part (I) : - General Awareness & General Ability Test (50 Marks)

1. **General Awareness and Contemporary Issues** (25 × 1 Mark = 25 Marks)
 - 1.1 Physical, socio-cultural and economic geography and demography of Nepal
 - 1.2 Major natural resources of Nepal
 - 1.3 Geographical diversity, climatic conditions, and livelihood & lifestyle of people
 - 1.4 Notable events and personalities, social, cultural and economic conditions in modern history of Nepal
 - 1.5 Current periodical plan of Nepal
 - 1.6 Information on sustainable development, environment, pollution, climate change, biodiversity, science and technology
 - 1.7 Nepal's international affairs and general information on the UNO, SAARC & BIMSTEC
 - 1.8 The Constitution of Nepal (From Part 1 to 5 and Schedules)
 - 1.9 Governance system and Government (Federal, Provincial and Local)
 - 1.10 Provisions of civil service act and regulation relating to constitution of civil service, organisational structure, posts of service, fulfillment of vacancy and code of conduct
 - 1.11 Functional scope of public services
 - 1.12 Public Service Charter
 - 1.13 Concept, objective and importance of public policy
 - 1.14 Fundamentals of management : planning, organizing, directing, controlling, coordinating, decision making, motivation and leadership
 - 1.15 Government planning, budgeting and accounting system
 - 1.16 Major events and current affairs of national and international importance
2. **General Reasoning Test** (25 × 1 Mark = 25 Marks)
 - 2.1 **Logical Reasoning** (9 × 1 Mark = 9 Marks)
Verbal Ability, Alphanumeric Series, Reasoning Analogies, Classification, Coding-Decoding, Order & Ranking, Distance & Directions, Analytical and Logical Reasoning, Assertion and Reason, Statement and Conclusion, Input-Output, Venn- diagram
 - 2.2 **Numerical Reasoning** (8 × 1 Mark = 8 Marks)
Arithmetic Series, Analogy, Classification, Arithmetical Reasoning, Fraction, Percentage, Ratio, Average, Profit & Loss, Time & Work, Date & Calendar, Data Sufficiency, Data Interpretation & Data Verification
 - 2.3 **Spatial Reasoning** (8 × 1 Mark = 8 Marks)
Figure Series, Figure Analogy, Figure Classification, Figure Matrix, Pattern Completion, Embedded Images, Image Formation & Analysis, Mirror and Water Images, Cubes and Dices, Paper Folding & Cutting

Part (II) : - General Technical Subject (50 Marks)

1. **Structural Engineering** (5 marks)
 - 1.1 Center of gravity, moment of inertia, radius of gyration
 - 1.2 Stresses and strains, theory of torsion and flexure
 - 1.3 Analysis of beams and frames: bending moment, shear force and deflection of beams and frames
 - 1.4 Determinate structures (energy methods), three hinged systems, suspension cable system
 - 1.5 Indeterminate structures:- slope deflection method and moment distribution method, use of influence line diagrams for simple beams, unit load method, two hinged arch
 - 1.6 Plastic analysis of beam and frame
2. **Engineering Survey** (7 marks)
 - 2.1 Introduction and basic principles, classification of surveys
 - 2.2 Linear measurement techniques:- chain and tape method, ranging rods and arrows, representation of measurement and common scales, sources of errors, effect of slope and slope correction, correction for chain and tape measurements, abney level and clinometers
 - 2.3 Compass:- types of compass, problems and sources of errors in compass survey
 - 2.4 Plane table surveying: principles and methods of plane tabling
 - 2.5 Leveling: principle of leveling, temporary and permanent adjustment of level, bench marks, booking methods and their recording, longitudinal and cross sectioning, reciprocal leveling, trigonometric leveling
 - 2.6 Contouring: contour interval and characteristics of contours, methods of contouring, interpolation, use of contour map
 - 2.7 Theodolite traversing: need of traverse and its significance, principle of traverse, computation of coordinates; adjustment of closed traverse and linked traverse, closing errors
 - 2.8 Tacheometry: principle, tacheometric formula, relation of distance and elevation
 - 2.9 Uses of total station and electronic distance measuring instruments
 - 2.10 Curves: types and suitability, elements, geometry and setting out of curves (simple circular curve, vertical curve, transition curve)
 - 2.11 Calculation of area and volume: methods of area calculation of land, methods of area and volume calculation of cut and fill, mass haul diagram
3. **Construction Materials** (6 marks)
 - 3.1 Properties of building materials: physical, chemical, constituents, thermal
 - 3.2 Stones: characteristics and requirements of stones as a building materials
 - 3.3 Ceramic materials: ceramic tiles, mosaic tile, brick types and testing
 - 3.4 Cementing materials: types and properties of lime and cement; cement mortar tests
 - 3.5 Metals: types and properties of steel, alloys


लोक सेवा आयोग
नेपाल इन्जिनियरिङ सेवा सिभिल समूह अन्तर्गतका जनरल, हाइवे, हाइड्रोपावर, इरिगेशन, स्यानिटरी र एयरपोर्ट उपसमूहहरूको
राजपत्राङ्कित तृतीय श्रेणीका पदहरूको खुला प्रतियोगितात्मक परीक्षाको पाठ्यक्रम

- 3.6 Timber and wood: timber trees in Nepal, types and properties of wood
- 3.7 Miscellaneous materials: asphaltic materials (asphalt, bitumen and tar), paints and varnishes, polymers
- 3.8 Soil properties and its parameters
- 3.9 Local and modern building construction material in Nepal

4. Concrete Technology (5 marks)

- 4.1 Constituents and properties of concrete (physical and chemical)
- 4.2 Water cement ratio
- 4.3 Grade and strength of concrete, concrete mix design, testing of concrete
- 4.4 Mixing, transportation pouring and curing of concrete
- 4.5 Admixtures
- 4.6 High strength concrete
- 4.7 Pre-stressed concrete

5. Geotechnical Engineering (6 marks)

- 5.1 Formation of soil, general classification of soil depending on transporting agent and deposit media
- 5.2 Three phases of soil: basic terms, relation between basic terms, volumetric relationship: mass and volume, weight and volume, specific gravity of soil and lab test, field density and determination methods
- 5.3 Types of water in soil, moisture content and relationship, organic content in soil
- 5.4 Index properties of soil: grain size distribution and types of soil depending on grain size distribution, consistency limit, relative density, lab test of index properties
- 5.5 Types of rock, dip, strike, fold, fault, cleavage, geographical divisions of Nepal, earthquake: causes of earthquake, types of wave, grading of earthquake, seismic fault line in Nepal
- 5.6 Tunneling: types of tunnels, component parts of a tunnel and tunnel cross section, survey for tunnel alignment, drainage, lighting and ventilation requirements for tunnels, method of tunneling in soft soils and rock

6. Construction Management (6 marks)

- 6.1 Construction scheduling and planning: network techniques (CPM, PERT) and bar charts
- 6.2 Contractual procedure and management: types of contract, bid and bid notice, preparation of bidding document, contractors pre-qualification, evaluation of tenders and selection of contractor, contract acceptance, condition of contract, quotation and direct purchase, classifications of contractors, dispute resolution, muster roll
- 6.3 Material management: procurement procedures and materials handling
- 6.4 Cost, quality and time control
- 6.5 Project management

नेपाल इन्जिनियरिङ सेवा सिभिल समूह अन्तर्गतका जनरल, हाइवे, हाइड्रोपावर, इरिगेशन, स्यानिटरी र एयरपोर्ट उपसमूहहरूको
राजपत्राङ्कित तृतीय श्रेणीका पदहरूको खुला प्रतियोगितात्मक परीक्षाको पाठ्यक्रम

- 6.6 Occupational health and safety
 - 6.7 Project monitoring and evaluation
 - 6.8 Quality assurance plan
 - 6.9 Variation, alteration and omissions
7. **Estimating, Costing, Specification and Valuation** (5 marks)
- 7.1 Types of estimates and their specific uses
 - 7.2 Methods of calculating quantities
 - 7.3 Key components of estimating norms and rate analysis
 - 7.4 Preparation of bill of quantities
 - 7.5 Purpose, types and importance of specification
 - 7.6 Purpose, principles and methods of valuation
8. **Engineering Drawing** (4 marks)
- 8.1 Drawing sheet composition and its essential components
 - 8.2 Suitable scales, site plans, preliminary drawings, working drawings
 - 8.3 Theory of projection drawing: perspective, orthographic and axonometric projection, first and third angle projection
 - 8.4 Drafting tools and equipments
 - 8.5 Drafting conventions and symbols
 - 8.6 Topographic, electrical, plumbing and structural drawings
 - 8.7 Techniques of free hand drawing
 - 8.8 Community buildings: School and hospital buildings and their design considerations
9. **Engineering Economics** (3 marks)
- 9.1 Benefit cost analysis, cost classification, sensitivity analysis, internal rate of return, time value of money; economic equilibrium, demand, supply and production, net present value, financial and economic evaluation
10. **Professional Practices** (3 marks)
- 10.1 Ethics, integrity and professionalism: code of conduct and guidelines for professional engineering practices
 - 10.2 Nepal Engineering Council Act, 2055; and regulations, 2056
 - 10.3 Relation with clients, contractor and fellow professionals
 - 10.4 Public procurement practices for works, goods and services and its importance
 - 10.5 National Building Code: Hierarchy of building codes and its application, procedure for implementation of building code in Nepal
 - 10.6 Building Bylaws