

मेचीनगर नगरपालिका  
नगर कार्यपालिकाको कार्यालय  
पदपूर्ति समिति  
स्थानीय सरकारी सेवा, वन वातावरण अधिकृत (सातौं) पदको खुला प्रतियोगितात्मक परीक्षाको पाठ्यक्रम

यस पाठ्यक्रमलाई दुई चरणमा विभाजन गरिएको छ |

प्रथम चरण:- लिखित परीक्षा पूर्णांक: ५०

दोस्रो चरण:- अन्तर्वार्ता पूर्णांक: ३०

**प्रथम चरण: लिखित परीक्षा**

विषय	खण्ड	पूर्णांक	उत्तीर्ण	परीक्षा प्रणाली		प्रश्न संख्या	समय
General Subject	Part I: General Awareness & General Reasoning Test	५०	२०	वस्तुगत (Objectives)	बहुवैकल्पिक प्रश्न (MCQs)	२५X१ अंक	४५ मिनेट
	Part II: General Technical Subject					२५X१ अंक	

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 प्रयोग गर्न पाइने छैन ।
- प्रथम चरणको परीक्षाबाट छनौट भएका उम्मेदवारहरूलाई मात्र द्वितीय चरणको परीक्षामा सम्मिलित गराइनेछ ।

**Part (I)**  
**General Awareness & General Ability Test (25 Marks)**

- General Awareness and Contemporary Issues (12 ×1 Mark = 12 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
  - 1.6 Information on sustainable development, environment, pollution, climate change, biodiversity, science and technology
  - 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, organizational structure, posts of service, fulfillment of vacancy and code of conduct
- General Reasoning Test (13 ×1 Mark = 13 Marks)
  - 2.1 Logical Reasoning  
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

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- 2.2 Numerical Reasoning  
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  
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 (25 Marks)**

- 1. ENVIRONMENTAL FACETS
  - 1.1 Environment: Concept, Scope and Practices
    - 1.1.1 Development of human society and environment
    - 1.1.2 Physical, biological and socio-economic aspects of environment and their interrelationships
    - 1.1.3 Environmental degradation and manifestations (land, water and air)
    - 1.1.4 Environmental movements and environmental ethics
  - 1.2 Ecology
    - 1.2.1 Population characteristics and regulations
    - 1.2.2 Community characteristics, regulation and succession
    - 1.2.3 Ecosystem dynamics: energy flow, biogeochemical cycles
    - 1.2.4 Terrestrial biomes and characteristics
  - 1.3 Environmental Geology
    - 1.3.1 Geological materials and structures
    - 1.3.2 Weathering and erosion: types, cycle and control
    - 1.3.3 Mass movement: causes and mechanisms
    - 1.3.4 Fluvial, glacial and aeolian environmental processes
- 2. ENVIRONMENTAL RESOURCES
  - 2.1 Water Resources
    - 2.1.1 Water resources: sources, extent and assessment
    - 2.1.2 Integrated Water Resource Management (IWRM)
    - 2.1.3 Water resources of Nepal
    - 2.1.4 Problems of water resource management in Nepal
  - 2.2 Forest and Biodiversity
    - 2.2.1 Forest types and biodiversity status of Nepal
    - 2.2.2 Ex-situ and in-situ conservation
    - 2.2.3 Biodiversity conservation approaches
    - 2.2.4 Carbon sequestration

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3. ENVIRONMENTAL POLLUTION AND ENGINEERING
- 3.1 Water Pollution
  - 3.1.1 Point and non-point sources and categories of water pollutants
  - 3.1.2 Water pollutants effect on human health and ecosystems
  - 3.1.3 Standard methods of water analysis
  - 3.1.4 Water and wastewater treatment technologies
- 3.2 Waste Management
  - 3.2.1 Sources, types and composition of solid wastes
  - 3.2.2 Solid waste management systems
  - 3.2.3 Issue, generation and management of e-waste, hazardous and hospital waste
  - 3.2.4 Management of industrial and agricultural chemical pesticides
4. ENVIRONMENTAL MANAGEMENT SYSTEMS
- 4.1 Environmental Assessment
  - 4.1.1 Environmental assessment: evolution in global and national perspectives
  - 4.1.2 Environmental assessment: process, practices, methods and tools
  - 4.1.3 Strategic environmental assessment for decision making and integrated planning
- 4.2 Environmental Management Systems (EMS) & Modeling
  - 4.2.1 Concept, components and stages of EMS
  - 4.2.2 ISO 14000 series, standards and certification systems
  - 4.2.3 Life cycle assessment and environmental labeling
  - 4.2.4 Types and importance of environmental models
- 4.3 Remote Sensing & GIS
  - 4.3.1 Concept, scope and stages in remote sensing and GIS
  - 4.3.2 Remote sensing image: acquisition, resolution, analysis and interpretation
  - 4.3.4 GIS applications in assessing environmental studies
- 4.4 Environmental Statistics
  - 4.4.1 Sampling, data analysis and interpretation
  - 4.4.2 Central tendency, measures of dispersion
  - 4.4.3 Correlation and regression
  - 4.4.4 Parametric and non-parametric tests
- 4.5 Environmental Governance
  - 4.5.1 Institutional arrangement (organogram) and environmental governance; concerned stakeholders and networks
  - 4.5.2 Governance tools and strategies
  - 4.5.3 Adaptive management and sustainability