यस पाठयक्रम योजनालाई दुई चरणमा विभाजन गरिएको छ:

प्रथम चरण :- लिखित परीक्षा (Written Examination) पूर्णाङ्क :- २००

द्वितीय चरण :- (क) सामूहिक परीक्षण (Group Test) पूर्णाङ्ग :- १०

(ख) अन्तर्वार्ता (Interview) पूर्णाङ्ग :- ३०

परीक्षा योजना (Examination Scheme)

प्रथम चरण : लिखित परीक्षा (Written Examination)

पूर्णाङ्क :- २००

पत्र	विषय	खण्ड	पूर्णाङ्क	उर्तीर्णाङ्ग	परीक्ष	ग प्रणाली	पश्नसख्या ×अङ्ग	समय
प्रथम	General Subject	Part I: General Awareness & General Ability Test	900	४०	वस्तुगत (Objective)	बहुवैकल्पिक प्रश्न (MCQs)	५० प्रश्न × १ अङ्क	१ घण्टा ३० मिनेट
		Part II: General Technical Subject					५० प्रश्न ×१ अङ्ग	
द्वितीय	Technical Subject		900	४०	विषयगत (Subjective)	छोटो उत्तर लामो उत्तर	४ प्रश्न ४ ५ अङ्क ८ पश्न ४ १०अङ्क	३ घण्टा

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

पूर्णाङ्ग :- ४०

पत्र /विषय	पूर्णाङ्ग	उर्तीर्णाङ्ग	परीक्षा प्रणाली	समय
सामूहिक परीक्षण (Group Test)	90		सामूहिक छलफल (Group Discussion)	३० मिनेट
अन्तर्वार्ता (Interview)	३०		बोर्ड अन्तर्वार्ता(Board Interview)	ı

द्रष्टव्य :

- 9. लिखित परीक्षाको माध्यम भाषा नेपाली वा अंग्रेजी अथवा नेपाली र अंग्रेजी दुवै हुनेछ ।
- २. प्रथमपत्र र द्वितीयपत्रको लिखित परीक्षा छुट्टाछुट्टै ह्नेछ ।
- ३. वस्तुगत बहुवैकित्पिक (Multiple Choice) प्रश्नहरुको गलत उत्तर दिएमा प्रत्येक गलत उत्तर बापत २० प्रितिशत अङ्क कट्टा गिरनेछ । तर उत्तर निदिएमा त्यस बापत अङ्क दिइने छैन र अङ्क कट्टा पिन गिरिने छैन ।
- ४. बहुवैकल्पिक प्रश्नहरु हुने परीक्षामा क्यालकुलेटर (Calculator) लगायतका कुनै पनि विद्युतीय उपकरण प्रयोग गर्न पाइने छैन ।
- ५. विषयगत प्रश्नहरुको 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 टिप्पणीहरु (Short notes) सोध्न सिकने छ ।
- ६. द्वितीय पत्रमा (विषयगत प्रश्न हुनेको हकमा) प्रत्येक खण्डका लागि छुट्टाछुट्टै उत्तरपुस्तिकाहरु हुनेछन् । परिक्षार्थीले प्रत्येक खण्डका प्रश्नहरुको उत्तर सोही खण्डको उत्तरपुस्तिकामा लेख्नुपर्नेछ ।
- ७. यस पाठयक्रम योजना अन्तर्गतका पत्र/विषयका विषयवस्तुमा जेसुकै लेखिएको भए तापिन पाठयक्रममा परेका कानून, ऐन, नियम तथा नीतिहरु परीक्षाको मिति भन्दा ३ मिहना अगािड (संशोधन भएका वा संशोधन भइ हटाईएका वा थप गरी संशोधन भई) कायम रहेकालाई यस पाठक्रममा परेको सम्भन् पर्दछ ।
- प्रथासम्भव प्रश्नहरु नेपाल र बागमती प्रदेशको सन्दर्भमा सोधिने छन् ।
- ९. प्रथम चरणका परीक्षाबाट छनौट भएका उम्मेदवारहरुलाई मात्र द्वितीय चरणको परीक्षामा सम्मिलित गराइनेछ ।
- १०. यस भन्दा अगांडि लागु भएका माथि उल्लेखित सेवा, समूहको पाठचक्रम खारेज गरिएको छ ।
- ११. पाठचक्रम लाग् मिति : २०७९/८/११

प्रथम पत्र (Paper I): General Subject

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

1. नेपालको संविधान तथा सान्दर्भिक कानूनहरूः

 $[10 \times 1 \text{ Mark} = 10 \text{ Marks}]$

- 1.1 नेपालको संविधान
- 1.2 कर्मचारी समायोजन ऐन, २०७४
- 1.3 सार्वजनिक खरिद ऐन. २०६३
- 1.4 सार्वजनिक खरिद नियमावली, २०६४
- 1.5 प्रदेश सार्वजनिक खरिद नियमावली, २०७६
- 1.6 भ्रष्टाचार निवारण ऐन, २०६४
- 1.7 सम्पत्ती शुद्धिकरण ऐन, २०६४
- 1.8 प्रदेश सचनाको हक सम्बन्धी ऐन, २०७६
- 1.9 प्रदेश स्शासन ऐन, २०७७
- 1.10 संघ, प्रदेश तथा स्थानीय तहका निजामती सेवा सम्बन्धी कानूनहरू

2. General Awareness and Contemporary Issues $[20 \times 1 \text{ Mark} = 20 \text{ Marks}]$

- 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 and Bagamati Province
- 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 Governance system and Government (Federal, Provincial and Local)
- 1.9 Functional scope of public services
- 1.10 Public Service Charter
- 1.11 Concept, objective and importance of public policy
- 1.12 Fundamentals of management: planning, organizing, directing, controlling, coordinating, decision making, motivation and leadership
- 1.13 Government planning, budgeting and accounting system

3. Major events and current affairs of national and international Importance [4 X 1 Mark = 4 Marks]

4. General Ability Test

 $[10\times1 \text{ Mark} = 10 \text{ Marks}]$

4.1 **Verbal Ability Test**

Jumble words, Series, Analogy, Classification, Coding-Decoding, Matrix, Ranking Order Test, Direction and Distance Sense Test, Common Sense Test, Logical Reasoning, Assertion and Reason, Statement and Conclusions

4.2 Numerical Ability Test

Series, Analogy, Classification, Coding, Arithmetical reasoning/operation, Percentage, Ratio, Average, Loss & Profit, Time & Work, Data interpretation & Data verification

4.3 Non-verbal/Abstract Ability Test

Figure Series, Figure Analogy, Figure Classification, Figure Matrix,

Pattern Completion/Finding, Analytical Reasoning Test, Figure Formation and Analysis, Rule Detection, Water images, Mirror images, Cubes and Dice &Venn-diagram

5. नेपाली र अङ्ग्रेजी भाषाः

 $[6 \times 1 \text{ Mark} = 6 \text{ Marks}]$

- 5.1 English: Knowledge on writing correct English sentences, letters, and reports according to English grammar based on the following syntactic functions: [3 X 1 Mark = 3 Marks]
 - a. Parts of Speech:
 - b. Noun
 - c. Pronoun
 - d. Adjective
 - e. Determiner
 - f. Verb
 - g. Adverb
 - h. Preposition
 - i. Conjunction and
 - j. Interjection
 - k. Infinitives and gerunds, reported speech and tenses
- 5.2 नेपाली: नेपाली भाषामा स्तरीय शुद्ध शब्द, वाक्यांश र वाक्य लेखनको लागि आवश्यक पर्ने इस्व दीर्घ, ब र व, तथा श, ष, स लगायतका व्याकरणगत शुद्ध लेखनशैलीमा केन्द्रित शुद्ध शब्द, वाक्यांश र वाक्य लेखनसिहतको नेपाली भाषाको शुद्धाशुद्धिको ज्ञान [3 X 1 Mark = 3 Marks]

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

Section A- 10 Marks

1. ENVIRONMENTAL FACTS

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

1.4 Climatology and Hydrometeorology

- 1.4.1 Horizontal and vertical temperature distribution
- 1.4.2 Mechanisms of wind development, air masses dynamics
- 1.4.3 Climatic systems, distribution and classifications
- 1.4.4 Floods: classification, causes, triggering factors

1.5 Global Environmental Issues

- 1.5.1 Global warming
- 1.5.2 Green economy
- 1.5.3 Payment for ecosystem services
- 1.5.4 Ozone layer depletion and acid rain

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 Food Resources

- 2.2.1 Major food resources and production
- 2.2.2 Human nutrition and health
- 2.2.4 Food resources of Nepal

2.3 Energy Resources

- 2.3.1 Energy resources: sources and classification
- 2.3.2 Alternative energy resources
- 2.3.3 Environmental issues of energy use
- 2.3.4 Energy resource conservation practices

2.3.5 Energy resources of Nepal

2.4 Forest and Biodiversity

- 2.4.1 Forest types and biodiversity status of Nepal
- 2.4.2 Ex-situ and in-situ conservation
- 2.4.3 Biodiversity conservation approaches
- 2.4.4 Carbon sequestration

2.5 Resource Economics

- 2.5.1 Micro-economic analysis for accounting environmental resources
- 2.5.2 Environmental Kuznets curve, cost benefit analysis and resource accounting
- 2.5.3 Economic and regulatory instruments to control pollution

Section B-15 Marks

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 Air Pollution

- 3.2.1 Sources and categories of air pollutants
- 3.2.2 Emission, transport, receptors of air pollutants, criteria air pollutants
- 3.2.3 Air pollutants effects on human health, property and visibility
- 3.2.4 Air pollution measurement and emission estimates
- 3.2.5 Air pollution control technologies

3.3 Noise Pollution

- 3.3.1 Noise sources and criteria
- 3.3.2 Health effects of noise and control mechanisms

3.4 Waste Management

- 3.4.1 Sources, types and composition of solid wastes
- 3.4.2 Solid waste management systems
- 3.4.3 Issue, generation and management of e-waste, hazardous and hospital waste
- 3.4.4 Management of industrial and agricultural chemical pesticides

3.5 Toxicology and Eco-toxicology

- 3.5.1 Acute, sub-acute and chronic toxicity
- 3.5.2 Dose and frequency response relationships
- 3.5.3 Bioassays and attributes for predicting species response to pollution stress

3.6 Climate Change

- 3.5.1 Climate variability and theories of climate change
- 3.6.2 Climate models and model based projections of greenhouse effect
- 3.6.3 Climate change impacts: agriculture and food security, water resources, energy, human health, biodiversity, settlement and infrastructure and livelihood
- 3.6.4 Vulnerability assessment of climate change and mitigation and adaptation approaches (NAPA, LAPA)

Section C- 10 Marks

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 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

Section D- 15 Marks

5. LEGAL FRAMEWORKS

5.1 Guidelines and Standards

Guidelines and Standards Relating to Air (Ambient, Indoor and Stack) and Water (Tolerance Limits for Industrial Effluents to be Discharged into Public Sewers and Inland Surface Waters); Specific Industrial Effluent Standards

5.2 Existing Legislations

Constitution of Nepal; Environmental Protection Act; Environment Protection Rules; National EIA Guidelines; EIA Guidelines for Forestry Sector; EIA Guidelines for Industry Sector; Plant Protection Act; National Parks and Wildlife Conservation Act; Water Resources Act; Forest Act; Soil and Watershed Management Act; Solid Waste Management Act; Pesticides Act; Pesticide Regulation; Hydropower Development Policy; Climate Change Policy

5.3 International Treaties, Protocols & Conventions

Convention on Biological Diversity, 1992; United Nations Framework Convention on Climate Change, 1992; United National Convention to Combat Desertification, 1994; Kyoto Protocol, 1997; Vienna Convention for the Protection of the Ozone Layer, 1985; Montreal Protocol on Substances that Deplete Ozone Layer, 1987; Basel

Convention on the Control of Transboundary Movements of Hazardous Waste and Their Disposal, 1989; Stockholm Convention on Persistent Organic Pollutants, 2004

6. CURRENT ENVIRONMENTAL ISSUES

6.1 Urban Environment

- 6.1.1 Urbanization and its implications on environment (sanitation, solid and hazardous waste, air pollution, water pollution, groundwater depletion, food security)
- 6.1.2 Urbanization infrastructures and environment (housing, water supply and sanitation, waste management, transportation, electricity, markets and commercial areas, religious and heritage sites, open spaces and recreational areas)
- 6.1.3 Concept of urban planning and sustainable cities

6.2 Land use and Watershed Management

- 6.2.1 Land use and environment (land use pattern and zoning; Guided Land Development (GLD) and land pooling)
- 6.2.2 Principles of land use and land reclamation
- 6.2.3. Factors governing land utilization and land use pattern
- 6.2.4 Scenario of watershed management in Nepal
- 6.2.5 Development and conservation challenges in watershed management
- 6.2.6 Watershed as ecosystems; Upstream-downstream linkages; Measures for watershed conservation

6.3 Agriculture and Food Security

- 6.3.1 Farming systems
- 6.3.2 Modern agriculture and its impacts on environment, green revolution
- 6.3.3 Sustainable agriculture and food aid policies
- 6.3.4 Food security in Nepal

6.4 Disaster Risks & Vulnerability Assessment

- 6.4.1 Hazard, disaster, risk, exposure and vulnerability analysis
- 6.4.2 Disasters due to earthquake, landslide and river bank erosion, flood, GLOF, drought, epidemics, fire and industrial accidents
- 6.4.3 Disaster risk management and practices

द्वितीय पत्र (Paper II): Technical Subject

Section A- 20 Marks

1. ENVIRONMENTAL FACTS

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

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- 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

1.4 Climatology and Hydrometeorology

- 1.4.1 Horizontal and vertical temperature distribution
- 1.4.2 Mechanisms of wind development, air masses dynamics
- 1.4.3 Climatic systems, distribution and classifications
- 1.4.4 Floods: classification, causes, triggering factors

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- 1.5.3 Payment for ecosystem services
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- 2.2.2 Human nutrition and health
- 2.2.4 Food resources of Nepal

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- 2.3.1 Energy resources: sources and classification
- 2.3.2 Alternative energy resources
- 2.3.3 Environmental issues of energy use
- 2.3.4 Energy resource conservation practices
- 2.3.5 Energy resources of Nepal

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2.4.1 Forest types and biodiversity status of Nepal

- 2.4.2 Ex-situ and in-situ conservation
- 2.4.3 Biodiversity conservation approaches
- 2.4.4 Carbon sequestration

2.5 Resource Economics

- 2.5.1 Micro-economic analysis for accounting environmental resources
- 2.5.2 Environmental Kuznets curve, cost benefit analysis and resource accounting
- 2.5.3 Economic and regulatory instruments to control pollution

Section B- 30 Marks

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 Air Pollution

- 3.2.1 Sources and categories of air pollutants
- 3.2.2 Emission, transport, receptors of air pollutants, criteria air pollutants
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- 3.2.4 Air pollution measurement and emission estimates
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- 3.6.4 Vulnerability assessment of climate change and mitigation and adaptation approaches (NAPA, LAPA)

Section C- 20 Marks

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

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- 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

Section D- 30 Marks

5. LEGAL FRAMEWORKS

5.1 Guidelines and Standards

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- 6.4.1 Hazard, disaster, risk, exposure and vulnerability analysis
- 6.4.2 Disasters due to earthquake, landslide and river bank erosion, flood, GLOF, drought, epidemics, fire and industrial accidents
- 6.4.3 Disaster risk management and practices

प्रथम चरणको लिखित परीक्षाबाट छनौट भएका उम्मेदवारहरुलाई मात्र लिइने सामूहिक परीक्षण (Group Test) का लागि

सामूहिक छलफल (Group Discussion)

यस प्रयोजनका लागि गरिने परीक्षण १० पूर्णाङ्क र ३० मिनेट अवधिको हुनेछ जुन नेता विहिन सामूहिक छलफल (Leaderless Group Discussion) को रुपमा अवलम्बन गरिने छ । दिइएको प्रश्न वा Topic का विषयमा पालैपालोसँग निर्दिष्ट समय भित्र समूह वीच छलफल गर्दै प्रत्येक उम्मेदवारले व्यक्तिगत प्रस्तुति (Individual Presentation) गर्नु पर्नेछ । यस परीक्षणमा मूल्याङ्कनका लागि देहाय अनुसारका ३ जना भन्दा बढीको समिति रहनेछ ।

आयोगका सदस्य - अध्यक्ष
आयोगका सदस्य - सदस्य
मनोविज्ञ - सदस्य
दक्ष / विज्ञ (१ जना) - सदस्य

सामूहिक छलफलमा दिइने नम्ना प्रश्न वा Topic

उदाहरणका लागि - उर्जा संकट, गरीबी निवारण, स्वास्थ्य बीमा, खाद्य सुरक्षा, प्रतिभा पलायन जस्ता Topics मध्ये कुनै एक Topic मात्र दिइनेछ।