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लोक सेवा आयोग

नेपाल विविध सेवा, राजपत्राङ्कित तृतीय श्रेणी, भूगोलशास्त्री पदको खुला प्रतियोगितात्मक परीक्षाको पाठ्यक्रम

यस पाठ्यक्रम योजनाला	ई दुई चरणमा विभाजन गरिएको छ :	
प्रथम चरण ः–	लिखित परीक्षा (Written Examination)	पूर्णाङ्क :– २००
द्वितीय चरण :-	(क) सामूहिक परीक्षण (Group Test)	पूर्णाङ्घ :– १०
	(ख) अन्तर्वार्ता (Interview)	पूर्णाङ्घ :– ३०
	परीक्षा योजना (Examination Scheme)	

प्रथम चरण : लिखित परीक्षा (Written Examination)

पत्र	विषय	खण्ड	पूर्णाङ्क	उर्तीर्णाङ्क	परीक्षा प्रणाली		प्रश्नसंख्या ×अङ्क	समय
प्रथम	General Subject	Part I: General Awareness & General Reasoning Test Part II: General Technical Subject	૧૦૦	80	वस्तुगत (Objective)	बहुवैकल्पिक प्रश्न (MCQs)	५० प्रश्न × १ अङ्ग ५० प्रश्न × १ अङ्ग	१ घण्टा ३० मिनेट
द्वितीय	Technica	l Subject	900	४०	विषयगत (Subjective)	छोटो उत्तर लामो उत्तर	४ प्रश्न x ५ अङ्क ∽ प्रश्न x १०अङ्क	३ घण्टा

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

पत्र /विषयपूर्णाङ्कउर्तीर्णाङ्कपरीक्षा प्रणालीसमयसामूहिक परीक्षण
(Group Test)90सामूहिक छलफल (Group Discussion)३० मिनेटअन्तर्वार्ता (Interview)30बोर्ड अन्तर्वार्ता(Board Interview)-

द्रष्टव्य :

- लिखित परीक्षाको माध्यम भाषा नेपाली वा अंग्रेजी अथवा नेपाली र अंग्रेजी द्वै हनेछ।
- २. प्रथमपत्र र द्वितीयपत्रको लिखित परीक्षा छुट्टाछुट्टै हुनेछ ।
- वस्तुगत बहुवैकल्पिक (Multiple Choice) प्रश्नहरुको गलत उत्तर दिएमा प्रत्येक गलत उत्तर बापत २० प्रतिशत अङ्ग कट्टा गरिनेछ । तर उत्तर नदिएमा त्यस बापत अङ्ग दिइने छैन र अङ्ग कट्टा पनि गरिने छैन ।
- ४. बहुवैकल्पिक प्रश्नहरु हुने परीक्षामा कुनै प्रकारको क्याल्कुलेटर (Calculator) प्रयोग गर्न पाइने छैन ।
- १. 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 सकिने छ।
- ६. द्वितीय पत्रमा (विषयगत प्रश्न हुनेका हकमा) प्रत्येक खण्डका लागि छुट्टाछुट्टै उत्तरपुस्तिकाहरु हुनेछन् । परिक्षार्थीले प्रत्येक खण्डका प्रश्नहरुको उत्तर सोही खण्डको उत्तरपुस्तिकामा लेख्नुपर्नेछ ।
- ७. यस पाठ्यक्रम योजना अन्तर्गतका पत्र/विषयका विषयवस्तुमा जेसुकै लेखिएको भए तापनि पाठ्यक्रममा परेका कानून, ऐन, नियम तथा नीतिहरु परीक्षाको मिति भन्दा ३ महिना अगाडि (संशोधन भएका वा संशोधन भई हटाईएका वा थप गरी संशोधन भई) कायम रहेकालाई यस पाठ्कममा परेको सम्भन् पर्दछ।
- ९. यस भन्दा अगाडि लागु भएका माथि उल्लेखित सेवा, समूहको पाठ्यक्रम खारेज गरिएको छ ।
- १०. पाठ्यक्रम लागू मिति : २०८०/०७/२०

पूर्णाङ्कः – २००

पूर्णाङ्झ :– ४०

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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

2.1 **Logical Reasoning** $(9 \times 1 \text{ Mark} = 9 \text{ Marks})$

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 & Calender, 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

(25 ×1 Mark = 25 Marks)

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

1. Geographical Thought

- 1.1 Spatial Organization and Pattern
 - 1.1.1 Spatial organization
 - 1.1.2 Interdependencies between places and scales
 - 1.1.3 The spatial environment (Distance-absolute, relative, cost perceived and social)
- 1.2 Geographic Contribution
 - 1.2.1 Greek and the Romans
 - 1.2.2 Arabs
 - 1.2.3 Germany, France, Great Britain, Russia and USA
- 1.3 Concept and Approaches of geography
 - 1.3.1 Concepts- Determinist, Possibilism, Neo-determinism
 - 1.3.2 Approaches- Behavioral, Humanistic Radical
 - 1.3.3 Regional concepts
- 1.4 Models and Trends in Geography
 - 1.4.1 Models Types, Theoretical Framework
 - 1.4.2 Recent Trends:
 - 1.4.3 Geography and Development
- 1.5 Development of Geography in Nepal
 - 1.5.1 Development of academic discipline
 - 1.5.2 Development of Institutions and organizations

2. Geomorphology

- 2.1 Concepts and approaches
 - 2.1.1 Concepts
 - 2.1.2 The geomorphic systems
 - 2.1.3 Geomorphic scale
 - 2.1.4 Models of morphologic evolutionary system
- 2.2 Diastrophism and denudation
 - 2.2.1 Global tectonics
 - 2.2.2 Denudation and Isostasy
 - 2.2.3 Hillslope stratigraphy, form and evolution
 - 2.2.4 Mass wasting
- 2.3 Drainage basins, fluvial processes and landforms
 - 2.3.1 Drainage basin Morphometry and its control
 - 2.3.2 Drainage basin evolution and response
 - 2.3.3 River channel morphology and its stability
 - 2.3.4 Fluvial landforms
- 2.4 Glacial and Periglacial Processes and Landforms
 - 2.4.1 Glacial erosion, transportation and deposition processes
 - 2.4.2 Glacial landforms
 - 2.4.3 Permafrost and associated features
 - 2.4.4 Frost action and associated features
- 2.5 Morphogenetic and polygenetic landforms and applied geomorphology 2.5.1 Morphogenetic regions
 - 2.5.2 Climate change and its geomorphic effects
 - 2.5.3 Application of geomorphology in different fields
 - 2.5.4 Hazard assessment and land development

24%

26%

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3. Settlement Geography

3.2

26%

- 3.1 Introduction.
 - 3.1.1 Concept of Settlement Geography
 - 3.1.2 Approaches to Settlement Geography
 - Classification of Settlements by Size and Function.
- Isolated Dwelling, Hamlet, Village, Town, City, Metropolis/ Conurbation and Megalopolis.
- 3.3 Location and Morphological characteristics of Rural Settlement.
 - 3.3.1 Factors for location of Settlement
 - 3.3.2 Village forms.
 - 3.3.3 Types and Pattern of Rural Settlement.
- 3.4 Settlement System.
 - 3.4.1 Rank Size Rule.
 - 3.4.2 Law of Primacy.
 - 3.4.3 Central Place Theory.
- 3.5 Urban Structure, Urbanization and Interaction.
 - 3.5.1 Concept of Basic and Non Basic Function.
 - 3.5.2 Concept of Urban Fields and its indicators for the delineation of Urban Field.
 - 3.5.3 Urban Land Use Theory: Concentric Zone Theory, Sector Theory and Multiple Nuclei Theory.
 - 3.5.4 Urbanization: Process, Pattern, Trend and Problem.

4. Research Techniques/Cartography/Remote Sensing/Geographical Information System 24%

- 4.1 Research Techniques
 - 4.1.1 Scientific inquiry, issues, ethics
 - 4.1.2 Types descriptive, explorative, case study
 - 4.1.3 Theory (deduction/induction) / models, hypothesis / assumptions and generalizations
 - 4.1.4 Research designs, data sources, data collection methods, and survey tools
 - 4.1.5 Data processing, analysis and report writing
- 4.2 Quantitative Methods
 - 4.2.1 Descriptive measures
 - 4.2.2 Spatial measures
 - 4.2.3 Sampling types, methods and designs
 - 4.2.4 Probability functions and distribution
 - 4.2.5 Statistical analysis and inference
- 4.3 Geographic Information System (GIS)
 - 4.3.1 Concept, scopes and functions
 - 4.3.2 Data structures
 - 4.3.3 Data acquisition
 - 4.3.4 Spatial database design and management
 - 4.3.5 Spatial analysis and outputs
- 4.4 Remote Sensing (RS)
 - 4.4.1 Concept, energy interaction and spectral characteristics
 - 4.4.2 Satellites and sensors resolution sensor types & their applications
 - 4.4.3 Aerial photography: concepts and interpretation
 - 4.4.4 Classification of satellite data and verification methods: field visit and GPS

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4.4.5 Applications and analysis: change, modeling, and suitability & capability

- 4.5 Cartographic Techniques
 - 4.5.1 Concept and uses
 - 4.5.2 Map types (scale map, social mapping & sketch map), map elements and map interpretation, analogue and digital mapping
 - 4.5.3 Map verification and construction methods (surveying, GPS, RS)
 - 4.5.4 Cartographic methods & types- manual/computer, thematic map, qualitative & quantitative, graduation, grey tone pattern, colour, hachuring
 - 4.5.5 Map reproduction tools and analysis (density, poverty and resource mapping)