लोक सेवा आयोग

नेपाल कृषि सेवा, एगृ. इको. एण्ड मार्केटिङ्क समूह, राजपत्राङ्कित तृतीय श्रेणीका पदको खुला प्रतियोगितात्मक परीक्षाको पाठयक्रम

द्वितीय पत्र (Paper II) : Technical Subject

Section (A) - 30 Marks

1. Agricultural and Natural Resource Economics

1.1 Basics of Agricultural Economics

- 1.1.1 Definitions, scope, subject matter and importance of economics and agricultural economics, microeconomics and macroeconomics
- 1.1.2 Socialist, capitalist and mixed economies
- 1.1.3 National income, gross domestic product and tax
- 1.1.4 Circular economy, open and closed economies, two-sector and three sector economies
- 1.1.5 Factors of production, wage, rent, interest and profit
- 1.1.6 Concepts on demand and supply, their determinants, elasticities and measurements
- 1.1.7 Consumer's preference, cardinal and ordinal utilities, indifference curve and law of diminishing marginal utility
- 1.1.8 Price effect: income and substitution effect
- 1.1.9 Cost: concepts, types and relationships, economies of scale
- 1.1.10 Theories of population
- 1.1.11 Overview of Nepalese agriculture and economy: agriculture and national income, prospect and challenges of Nepali agriculture
- 1.1.12 Theory of rent

1.2 Natural Resource Economics

- 1.2.1 Concepts, types and dimensions of resources
- 1.2.2 Sustainable use of renewable and non-renewable resources
- 1.2.3 Externalities and valuation of non-tradable goods; concept of payment for ecosystem services (PES)
- 1.2.4 Concepts of environmental economics and green economics (green accounting)
- 1.2.5 Economic development and environment, Sustainable Development Goals (SDG)
- 1.2.6 Land, forest, mineral and water resource of Nepal and major policies for their management
- 1.2.7 Environmental Impact Assessment (EIA) and Initial Environmental Examination (IEE)
- 1.2.8 Welfare economics and Pareto efficiency, public good and market failure
- 1.2.9 Decentralization and role of community for resource conservation
- 1.2.10 Resource degradation, degradation of biodiversity, deforestation and REDD++
- 1.2.11 Climate change : concept, context, effect, adaptation and mitigation

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Section (B) - 40 Marks

2. Farm Management, Agricultural Marketing and Agri-business

2.1 Farm Management

- 2.1.1 Farm plan and budgets (total, enterprise and partial budgeting)
- 2.1.2 Types of farm management decisions and principles (absolute/comparative/competitive advantage, time comparison, equi-marginal return, factor/output substitution)
- 2.1.3 Farm records and accounts (inventory, income statement, balance sheet, cash flow statement), valuation of farm assets and depreciation
- 2.1.4 Farm efficiency measurement: production, land use, labour and capital use efficiencies
- 2.1.5 Risk and uncertainty management
- 2.1.6 Input and output optimization: rational and irrational zones of production, optimum combination of inputs and outputs, linear programming

2.2 Agricultural Markets and Marketing

- 2.2.1 Characteristics of agricultural market and problems of marketing in Nepal
- 2.2.2 Grading, standardization, quality control and related problems of agricultural commodities
- 2.2.3 Marketing of agricultural inputs (fertilizer, seeds, saplings, chemicals) and outputs (cereals, cash crops, fruits and vegetables)
- 2.2.4 Characteristics price determination under different market conditions
- 2.2.5 Marketing channel and efficiency, market for poor (M4P)
- 2.2.6 Price variation (spatial and temporal) and discrimination, market integration
- 2.2.7 Government intervention in agricultural market, cooperative for agricultural marketing
- 2.2.8 Youth entrepreneurship and agri-business incubation
- 2.2.9 Concept of digital markets and opportunities, role of market information system in agricultural marketing
- 2.2.10 Karnali Fruits and Vegetables Market Development Board and Federal Government Regulated Wholesale Markets Mannagement

2.3 Agri-business and International Trade

- 2.3.1 Concept, types, features, problems and prospects of agribusiness
- 2.3.2 Agribusiness policies and enabling environment in Nepal
- 2.3.3 Business feasibility analysis: appraising an agribusiness, IDEAS, and SWOT analysis
- 2.3.4 Preparation of agribusiness plan: concepts, importance and elements
- 2.3.5 Agribusiness value chain and market oriented production system and factors affecting it
- 2.3.6 Financial management in agribusiness: financial intermediation, assessment of credit need and role of credit
- 2.3.7 Trade gain, tariff and non-tariff trade barriers and basis of international trade
- 2.3.8 Globalization, privatization, and trade liberalization

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- 2.3.9 Global and regional context of agricultural marketing and trade (WTO, BIMSTEC, SAFTA, Indo-Nepal and Nepal-China trade), Nepal Trade Integration Strategy (NTIS)
- 2.3.10 Comparative and competitive advantage in international trade
- 2.3.11 Balance of trade and balance of payment position of Nepal

Section (C) - 15 Marks

3. Agricultural Program Planning, Monitoring, Evaluation and Data Management

- 3.1 Concepts of agricultural planning, preparation of programs/projects, budgeting and project cycle
- 3.2 Feasibility studies of agricultural projects; economic and financial appraisal criteria
- 3.3 Risk and uncertainty in financing agriculture projects
- 3.4 Monitoring and evaluation of agricultural programs/ projects
- 3.5 Poverty and food security: measurement and present context
- 3.6 Result based monitoring and evalution system
- 3.7 Green Resilient Inclusive Development (GRID) model of project development in agriculture
- 3.8 Sustainability of agricultural projects: dimensions, challenges and way forward
- 3.9 Concept of project bank, Ministerial Development Action Committee (MDAC), National Development Action Committee (NDAC)
- 3.10 Existing policies and program of Government of Nepal on support services for agriculture : seed, fertilizer, insurance, minimum support prices and credit

Section (D) - 15 Marks

4. Statistics and Survey Techniques

- 4.1 Frequency distribution and measures of central tendency, bar and pie charts
- 4.2 Computation of mean and standard deviation from grouped and ungrouped sets of
- 4.3 Hypothesis testing and confidence interval
- 4.4 Regression and correlation analysis
- 4.5 Estimate of errors, control of error
- 4.6 Agriculture census: Sample survey and its advantage over census survey
- 4.7 Source of sampling and non-sampling error and measures to minimize such errors
- 4.8 Sample design for collecting current agricultural statistics in Nepal
- 4.9 Rapid Rural Appraisal (RRA) and Participatory Rural Appraisal (PRA) and crop cutting surveys
- 4.10 Use of ICT for data collection and analysis
- 4.11 Trend of area, production and productivity of major agricultural commodities

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

सामूहिक छलफल (Group Discussion)

यस प्रयोजनको 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 मूल्याङ्गनको लागि देहाय अनुसारको ३ जनाको समिति रहनेछ ।

आयोगका अध्यक्ष वा सदस्य - अध्यक्षमनोविज्ञ - सदस्यदक्ष/विज्ञ (१ जना) - सदस्य

सामूहिक छलफलमा दिइने नमुना प्रश्न वा Topic

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