

कृषि स्नातक पदको लिखित परिक्षाको पाठ्यक्रम

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 Ability Test** (25 ×1 Mark = 25 Marks)
 - 2.1 **Verbal Ability Test** (8×1 Mark = 8 Marks)

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
 - 2.2 **Numerical Ability Test** (9×1 Mark = 9Marks)

Series, Analogy, Classification, Coding, Arithmetical reasoning/operation, Percentage, Ratio, Average, Loss & Profit, Time & Work, Data interpretation & Data verification
 - 2.3 **Non-verbal/Abstract Ability Test** (8×1 Mark = 8 Marks)

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



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

1. **History and Current Status of Agriculture Sector in Nepal** (5 marks)
 - 1.1 History of agricultural research and development in Nepal
 - 1.2 Overview of Nepalese agriculture: Current status and scope
 - 1.3 Institutional arrangement of agricultural research, extension and education in Nepal
 - 1.4 Agriculture Perspective Plan (APP) and its impact in Nepalese agriculture
 - 1.5 Devolution of agriculture extension system and its impact in agricultural development
2. **Agriculture Research, Extension and Education** (5 marks)
 - 2.1 Role of agriculture research in contemporary agriculture
 - 2.2 Nepal Agricultural Research Council (NARC) and its vision
 - 2.3 Agricultural education systems in Nepal
 - 2.4 Academic institutions such as AFU, PU, TU
 - 2.5 Non-academic institutions (CTEVT and its allied institutions)
 - 2.6 Major functions of agriculture research, extension and education in Nepal
 - 2.7 Linkage and coordination among research, extension and teaching in Nepal
 - 2.8 Public, private, NGOs, CBOs, agricultural co-operatives and farmer groups involvement in research, extension and education
 - 2.9 Participatory technology development, participatory planning, monitoring, evaluation and feedback
3. **Natural Resource, Environment Conservation, Climate Change and Disaster-Risk Management** (10 marks)
 - 3.1 Importance of natural resources conservation, utilization and management w. r. t. food security, employment generation and livelihood improvement in Nepal
 - 3.2 Bio-diversity and agro-biodiversity: Conservation and utilization for sustainable agriculture development
 - 3.3 Use of fertilizers and pesticides in agriculture and their implications to environment
 - 3.4 Integrated pest, crop, and plant nutrient management systems (IPM, ICM, IPNM) and Good Agricultural Practices (GAP)
 - 3.5 Environmental issues and sustainability of Nepalese agriculture
 - 3.6 Organic agriculture, and organic products for export promotion and food safety
 - 3.7 General climatic conditions of Nepal
 - 3.8 Weather observation and instruments use in Nepal
 - 3.9 Climate change and its impact in agriculture sector
 - 3.10 Climate change adaptation and mitigation strategies of Nepal
 - 3.11 Disaster (landslide, drought, flood, cold spell, earthquake, pest outbreak) management in agriculture



- 3.12 Rapid urbanization and change in land use pattern and their consequences in food security, environment conservation, employment generation and youth migration
- 3.13 Crop insurance in Nepal: Current policies and status
4. **Legislations, Plan, Policies, Strategies, and Global Trade in Agriculture** (10 marks)
- 4.1 Agriculture sector in current constitution
 - 4.2 Concept, goals, target and strategies of current periodic plan
 - 4.3 Planning , implementation, monitoring and evaluation of agricultural projects
 - 4.4 Local governance and its role in agricultural development
 - 4.5 National Agriculture Policy, 2061 (2004)
 - 4.6 Agro-biodiversity Promotion Policy, 2063 (2007) (first amendment, 2071)
 - 4.7 Agri-business Promotion Policy, 2063 (2006)
 - 4.8 Agriculture Development Strategy (ADS), 2015-2035 AD: vision, mission, target, components and its salient features, implementation status of ADS, supporting projects and institutional arrangement
 - 4.9 National Seed Vision, 2013-2025 and its implementation status
 - 4.10 Nepal Trade Integration Strategy (NTIS), 2016 - Agricultural commodities
 - 4.11 Agricultural Extension Strategy, 2061 (2003)
 - 4.12 Seeds Act, 2045 (1988) and Seeds Rules, 2069 (2013)
 - 4.13 Plant Protection Act, 2064 (2007) and Plant Protection Rules, 2066 (2010)
 - 4.14 Pesticides Management Act, 2076 (2019) and Regulation
 - 4.15 Fertilizer Control Order, 2055
 - 4.16 Food Right and Food Sovereignty Act, 2076 (2019)
 - 4.17 Food Safety Policy, 2076 (2019)
 - 4.18 Agro Forestry Policy, 2076 (2019)
 - 4.19 World Trade Organization (WTO), Agreement on South Asian Free Trade Area (SAFTA): their implication and impact in Nepalese agriculture
 - 4.20 Comparative advantage, agriculture commercialization and trading of Nepalese agricultural products.
 - 4.21 Implication of Sanitary and Phyto-sanitary (SPS) measures in Nepalese agricultural trade
5. **Agricultural Technology and Management** (20 marks)
- 5.1 Importance of technology generation, verification and dissemination in crop production and management
 - 5.2 Seed quality assurance: Seed production, laboratory testing, processing, handling, marketing and storage
 - 5.3 Variety release and registration system in Nepal
 - 5.4 Food and nutrition security: Concepts, status and dimensions
 - 5.5 Importance of pests and pesticides management
 - 5.6 Integrated Pest Management (IPM) concepts and strategies/practices
 - 5.7 Roles of pollinators in crop production



- 5.8 Importance of microbial agents (fungus, bacteria, nematodes and virus) in plant protection
- 5.9 Importance of crop diversification and commercialization in Nepal.
- 5.10 Precision and protected agriculture: Concepts and technologies
- 5.11 Agricultural crops for agro-forestry and environmental protection
- 5.12 Strategies for commercialization of high value low volume commodities
- 5.13 Concept of soil fertility and productivity
- 5.14 Essential plant nutrients and their sources (manures and fertilizers)
- 5.15 Soil reaction (pH) and soil reaction improvement
- 5.16 Concept of Integrated Plant Nutrient Systems (IPNS) and its significance
- 5.17 Contemporary agricultural extension practices in Nepal (plant clinic, mobile service, training and demonstration farm, farmer to farmer extension and pluralistic extension)
- 5.18 Role of information and communication technology (ICT) in agriculture development
- 5.19 Agricultural markets and marketing in Nepal
- 5.20 Agricultural Management Information System (AMIS) in Nepal
- 5.21 Agriculture Census, 2068
- 5.22 Linkage of agro-industries with agriculture production and marketing
- 5.23 Role of cooperatives in agriculture development in Nepal
- 5.24 Research methodology in agriculture (basic concepts, common designs and their application)
- 5.25 Trade liberalization and its implication in Nepalese agricultural product
- 5.26 Value chain development: concepts and practices in agriculture
- 5.27 Postharvest management of agricultural commodities
- 5.28 Farming system and sustainable agriculture development
- 5.29 Gender Equity and Social Inclusion (GESI) and women's role in Nepalese agriculture
- 5.30 Conservation agriculture: concept, principles and practices

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