

कृषि सामग्री कम्पनी लिमिटेड
अधिकृत तृतीय श्रेणी (प्राविधिक), सहायक प्रबन्धक (कृषि) पदको खुला प्रतियोगितात्मक परीक्षाको
परीक्षा योजना तथा पाठ्यक्रम

परीक्षा योजना(Examination Scheme)

यस पाठ्यक्रमलाई दुई चरणमा विभाजन गरिएको छ ।

प्रथम चरण - लिखित परीक्षा

पूर्णाङ्क : २००

द्वितीय चरण - अन्तर्वार्ता

पूर्णाङ्क : ३०

लिखित परीक्षा योजना

पत्र	विषय	परीक्षा प्रणाली	प्रश्न संख्या × अङ्क भार	समय	पूर्णाङ्क	उत्तीर्णाङ्क
प्रथम	कृषि विज्ञान	वस्तुगत बहुवैकल्पिक	१०० प्रश्न × १ अङ्क = १००	३ घण्टा	१००	४०
द्वितीय	सेवा सम्बन्धी	विषयगत	१० प्रश्न × १० अङ्क = १००	३ घण्टा	१००	४०

द्रष्टव्य :

- लिखित परीक्षाको माध्यम भाषा नेपाली वा अंग्रेजी अथवा नेपाली र अंग्रेजी दुवै हुन सक्नेछ ।
 - पाठ्यक्रमको प्रथम र द्वितीय पत्रको विषयवस्तु फरक फरक हुनेछन् ।
 - माथि उल्लिखित समूहको पाठ्यक्रमको प्रथम पत्रको विषयवस्तु एउटै हुनेछ । द्वितीय पत्रका विषयवस्तु समुह अनुसार फरक फरक हुनेछन् ।
 - प्रथम र द्वितीय पत्रको लिखित परीक्षा छुट्टाछुट्टै हुनेछ ।
 - प्रथम पत्रका पाठ्यक्रमका एकाईहरुबाट सोधिने प्रश्नहरुको संख्या निम्नानुसार हुनेछ । द्वितीय पत्रको पाठ्यक्रमका एकाईहरुबाट सोधिने प्रश्नहरुको संख्या द्वितीय पत्रको पाठ्यक्रम उल्लेख भए अनुसार हुनेछ ।
- | प्रथम पत्रका एकाई | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-------------------|----|---|---|---|----|----|---|----|
| प्रश्न संख्या | 10 | 5 | 5 | 5 | 10 | 10 | 5 | 50 |
- वस्तुगत बहुवैकल्पिक (Multiple Choice) प्रश्नहरुको 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 प्रश्नहरु हुने परीक्षामा कुनै प्रकारको क्याल्कुलेटर (Calculator) प्रयोग गर्न पाइने छैन ।
 - विषयगत प्रश्नका लागि तोकिएका १० अङ्कका प्रश्नहरुको हकमा १० अङ्कको 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 ।
 - द्वितीय पत्रमा प्रत्येक खण्डका लागि छुट्टाछुट्टै उत्तरपुस्तिकाहरु हुनेछन् । परिक्षार्थीले प्रत्येक खण्डका प्रश्नहरुको उत्तर सोही खण्डको उत्तरपुस्तिकामा लेख्नुपर्नेछ ।
 - 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 पाठ्यक्रममा परेको सम्झन पर्दछ ।
 - यस भन्दा अगाडि लागू भएको माथि उल्लिखित समूहको पाठ्यक्रम खारेज गरिएको छ ।
 - पाठ्यक्रम लागू मिति :-

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प्रथम पत्र : कृषि विज्ञान

1. AGRICULTURE IN NEPAL
 - 1.1 Past and present agriculture organizations, national, regional, district level agricultural organizations.
 - 1.2 Green revolution, agriculture production status, land management and distribution system.
 - 1.3 Agriculture Sector in current Periodic Plan of Nepal
2. NATIONAL AGRICULTURE POLICY
3. AGRICULTURE RESEARCH, EXTENSION AND EDUCATION
4. AGRICULTURAL PERSPECTIVE PLAN (APP)
5. WTO/REGIONAL TRADE/SAFTA
 - 5.1 World Trade Organization (WTO), South Asia free trade agreement (SAFTA), effects, implication and strategies of WTO in Nepalese agriculture
 - 5.2 Comparative advantages of Nepalese agriculture
 - 5.3 Comparativeness, agriculture commercialization, trade (import & export of agriculture products), impact of green economic policy on agriculture / agro-industries
 - 5.4 Implication of sanitary & Phyto-sanitary (SPS) Agreement in Nepalese agriculture trade, consumers interest and environment, Harmonization of quarantine standards
6. NATURAL RESOURCE & ENVIRONMENT CONSERVATION, POPULATION AND DENSITY
 - 6.1. Soil water resources, natural resources conservation, promotion and utilization
 - 6.2. Use of fertilizers, pesticides (chemicals) and their implications
 - 6.3. Food safety, recent trends of crop production integrated pest, crop, and plant nutrient (IPM, ICM, IPNM), bio-diversity and agro-biodiversity, conservation and utilization
 - 6.4. Environmental issues and sustainability
 - 6.5. Organic agriculture and organic products
 - 6.6. Land use planning
 - 6.7. Population census, 2012
 - 6.8. Population and implication on agriculture, development, education, environment, health
 - 6.9. Findings of Latest Agricultural census
 - 6.10. Gender issues and woman empowerment
7. CLIMATE CHANGE/DISASTER MANAGEMENT IN RELATION TO AGRICULTURE SECTOR

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8. AGRICULTURAL TECHNOLOGY AND MANAGEMENT

50%

- 8.1. Importance of agricultural weeds in crop production and its control measures
- 8.2. Principles and practices of seed, production, quality testing, processing, handling and storage, and concept and principles of variety release and crop production in Nepal
- 8.3. Scope of plant genetic resources in sustainable agriculture development of Nepal
- 8.4. Importance and principles of disease and pests, pesticides management and integrated pest management
- 8.5. Roles of pollinators in agricultural crop
- 8.6. Industrial importance if insects microorganism, fungus, bacteria, and Nematodes in plant protection
- 8.7. Principles and importance, scope and potentiality of horticulture in Nepal
- 8.8. Importance of horticulture and cash crop in crop diversification and commercialization of agriculture in Nepal
- 8.9. Horticultural crops of agro-forestry and environmental protection
- 8.10. Strategies of commercialization of high value commodities
- 8.11 Plant nutrients and environment, use and misuse of fertilizer
- 8.12. Concept of soil fertility and productivity, essential plant nutrients
- 8.13. Soil organic matter microorganism and its importance in sustainable soil management
- 8.14. Soil reaction, (pH) and liming, major fertilizers and their nutrient contents
- 8.15. Concept of integrated plant nutrient systems (IPNS) and their significance
- 8.16. Historical perspective of agricultural extension Development in Nepal, Role of Modern concept and principles in agricultural extension in Nepalese agricultural and rural development, extension system approaches
- 8.17. Role of information and communication in agriculture development
- 8.18. Recent status, constraint in program implementation, monitoring and evaluation of APP efforts and policies
- 8.19. Farm management study in Nepal and its content
- 8.20. Statistical information of Nepalese Agriculture, contents in it
- 8.21. Linkage of agro-industries with agri- marketing infrastructure
- 8.22. Comparative and competitive advantage seeking behaviour in agriculture
- 8.23. Nepalese Agro-industries, Characters and factors of their sustainability
- 8.24. Economic viewpoints of cooperative development strategy for agricultural production, growth and commercialization
- 8.25. Agricultural Gross Domestic Product and shares by sub-sector in recent years

End

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द्वितीय पत्र: सेवा सम्बन्धी

SECTION -A

(5 questions X 10 marks)

1. SOIL

- 1.1 Definition, Components and Constituents
- 1.2 Physical and Chemical properties
- 1.3 Biological properties of soils
- 1.4 Soil fertility and plant nutrition

2. Soil Fertility and Plant Nutrition

- 2.1 Essential plant nutrients
- 2.2 Visual symptoms of nutrient deficiencies and indicator plants
- 2.3 Functions of essential plant nutrients in Plants
- 2.4 Nutrient cycle (C,N,P, and S.) and its component and the soil, environmental and management factors
- 2.5 Nutrient requirements and uptake and balance
- 2.6 General soil fertility status of major Nepalese soils
- 2.7 Soil testing, plant analysis and diagnostic techniques for improved soil fertility management
- 2.8 Concepts of fertilizer use, integrated plant nutrient systems (IPNS) and organic farming and their significance in sustainable soil management in the Nepalese context

3. Manures and Fertilizers

- 3.1 Sources and types of organic manures
- 3.2 Farmyard manure (FYM), compost and their preparation, storage and applications
- 3.3 Bio-fertilizers, inoculants and their use in Nepalese agriculture
- 3.4 Green manures, their desirable characteristics, benefits and constraints
- 3.5 Mineral fertilizers and their history in the Nepal
- 3.6 Types of commercial fertilizers (straight, compound complexes, micronutrient) and their nutrient contents
- 3.7 Fertilizers available in Nepalese Market
- 3.8 Behavior of N.P. & K. fertilized & their responses to crops in the Nepalese context
- 3.9 Fertilizer recommendation for their application techniques for major crops in Nepal
- 3.10 Fertilizer handling and storage situation in rural Nepal
- 3.11 Fertilizer regulation, marketing and quality control mechanism in Nepal

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SECTION - B
(5 questions X 10 marks)

4. SEED TECHNOLOGY

- 4.1 Seed formation, development and composition, physiology of seed
- 4.2 Seed quality and seed classes
- 4.3 Principles and practices of seed production
- 4.4 Seed processing, handling and storage
- 4.5 Seed testing principles
- 4.6 Seed certification procedures and seed certification standards in major crops in Nepal

5. WEEDS AND WEED MANAGEMENT

- 5.1 Weed, weed classification, its importance in crop production, its distribution in Nepal
- 5.2 Common weeds found in major field crops
- 5.3 Herbicides, types of common herbicides, herbicides formulation and plant selectivity, commonly used herbicides in Nepal
- 5.4 Weed management in important crops rice, maize, wheat, soybean, lentil etc
- 5.5 Economic use of chemical herbicides

6. STATISTICS

- 6.1 Probability, frequency, mean, median, mode, standard deviation, standard error, normal distribution, sampling theory
- 6.2 Test of hypothesis, confidence interval, estimate of error – replication and randomization, control error – blocking, proper plot technique
- 6.3 Least significant difference (LSD), and Duncan's Multiple Range Test (DMRT), their use and importance in statistics, completely randomized design (CRD) – randomization, layout, factorial experiment, analysis of variance, coefficient of variance
- 6.4 Interaction between two factors, split-plot design – randomization and layout, analysis of variance
- 6.5 Regression and correlation analysis

End