

Plan of Work

Agriculture

Grade 7

For examination from 2024

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SUCCESS DEPENDS ON THE PROPER USE OF TIME

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Introduction

Prescribed textbooks:

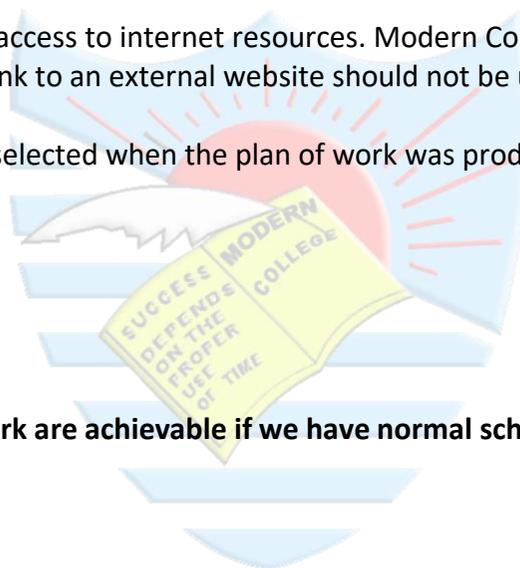
- An introduction to Agriculture Book 1 [Tej Roonie]

Websites and videos

This plan of work includes website links providing direct access to internet resources. Modern College is not responsible for the accuracy or content of information contained in these sites. The inclusion of a link to an external website should not be understood to be an endorsement of that website or the site's owners (or their products/services).

The website pages referenced in this plan of work were selected when the plan of work was produced. Other aspects of the sites were not checked and only the particular resources are recommended.

IMPORTANT NOTE: The objectives set in this plan of work are achievable if we have normal school days.



FIRST TERM [11/01/2024 – 05/04/2024]

Topic 1: General Agriculture

Learning Objectives	Worked Examples	Classwork & Homework	Extra Work	Resources
<p><i>Students should be able to:</i></p> <p>a) define agriculture, crops and livestock;</p>	<p>Is mining of coal an agricultural activity? Why?</p>	<p>[Tej Rooney book 1]: pg 18 – 23 ex 1, 2, 3.</p> <p>Give examples of raw materials from agriculture which are used in industries.</p>	<p>[Tej Rooney book 1]: To read and study 'General Agriculture' (pg 2 – 11).</p>	<ul style="list-style-type: none"> • What is LIVESTOCK? What does LIVESTOCK mean? https://www.youtube.com/watch?v=zDms96He0HM
<p>b) outline the importance of agriculture;</p>	<p>Name some jobs related to agriculture.</p>			<ul style="list-style-type: none"> • The Importance of Agriculture https://www.farmingportal.co.za/index.php/farminglifestyle/agri-tourism/195-the-importance-of-agriculture

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c) outline the farming practices.	Describe a farming practice where the farmer can save money on fertilisers.			<ul style="list-style-type: none"> • Crop rotation http://precisionagriculture.com/crop-rotation/
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Topic 3: Farm Tools and Equipment

Learning Objectives	Worked Examples	Classwork & Homework	Extra Work	Resources
<p><i>Students should be able to:</i></p> <p>a) draw and label farm tools and equipment;</p>	Draw 5 garden tools and described the importance of each tool.	<p>Tej Rooney book 1]: pg 48 – 51 ex 1, 2, 3.</p> <p>(1) State the care to be taken while using or storing farm tools.</p>		<ul style="list-style-type: none"> • Farm Tools and Equipment https://www.easyelimu.com/high-school-notes/agriculture/form-1/item/469-farm-tools-and-equipment-garden-tools-and-equipment
b) outline the importance(s) of each one in (a);	<p>You are provided with 3 agricultural tools namely:</p> <ul style="list-style-type: none"> -rake -hoe -fork <p>Describe the correct order to prepare a land for cultivation.</p>	<p>(2) Why spraying of chemicals should not be carried out during windy and rainy days?</p>	<p>[Tej Rooney book 1]: To read and study 'Farm tools and equipment' (pg 40 – 46).</p>	

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c) describe care of tools and equipment;	Describe the importance of drying and oiling metal parts of tools after washing.			<ul style="list-style-type: none">• How to take care of your tools https://lifehacker.com/how-to-take-care-of-your-tools-1543310658
d) describe the safe use of farm sprayer and chemicals.	(i) Sprayers after use should not be washed in rivers. Explain why? (ii) Name the weather conditions for the spraying of pesticide on crops.			<ul style="list-style-type: none">• Precautions for using pesticides http://ipm.ucanr.edu/GENERAL/precautions.html

Topic: Flowering plants

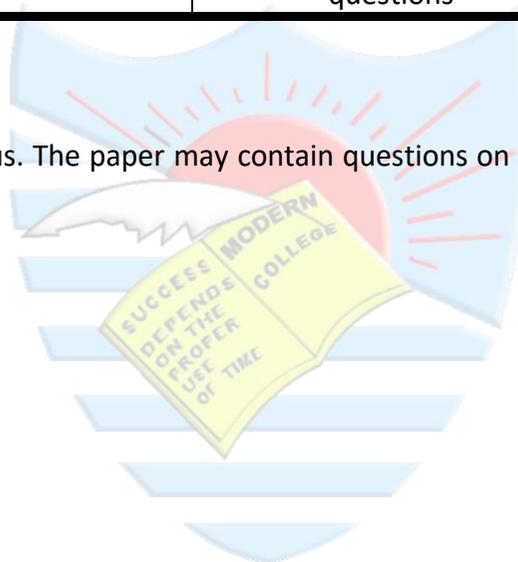
Learning Objectives	Worked Examples	Classwork & Homework	Extra Work	Resources
<p>Students should be able to:</p> <p>a) state the importance of :</p> <p>(i) Roots</p> <p>(ii) Stems</p> <p>(iii) Leaves</p> <p>(iv) Flowers</p> <p>(v) Fruits</p> <p>(vi) Seeds</p>	<p>(i) Draw and label a typical flowering plant.</p> <p>(ii) Name the parts of the</p> <p>-shoot system</p> <p>-root system</p>	<p>(1) Gives two importance of roots, stems, leaves, flowers, fruits and seeds.</p> <p>(2) Describe the importance of the different parts of the structure of a flower.</p>	<p>[Tej Rooney book 2]: To read and study 'Plants' (pg 35 – 49).</p>	<ul style="list-style-type: none"> What are the important functions of flowers? https://www.quora.com/What-are-the-important-functions-of-flowers
<p>b) draw, label and describe the different parts of a flower.</p>	<p>Draw typical flowers which are adapted to</p> <p>(i) self pollination</p> <p>(ii) wind pollination</p>	<p>(3) Define pollination.</p> <p>(4) Define fertilisation.</p> <p>(5) Describe what happens to a flower after fertilisation.</p>		<ul style="list-style-type: none"> Flower Structure and its Parts https://www.youtube.com/watch?v=Y1rR6a-o6b0

March Assessment

Component	Time Allocation	Type	Maximum Mark
Paper 1	1 hour	MCQ & structured questions	50

Paper 1 will consist of about 5 short answer questions.

Candidates are expected to cover the PROPOSED syllabus. The paper may contain questions on any part of the syllabus and questions will not necessarily be restricted to a single topic.



SECOND TERM [22/04/2024– 19/07/2024]

Topic 4: Crop Production

Learning Objectives	Worked Examples	Classwork & Homework	Extra Work	Resources
<p>Students should be able to:</p> <p>a) define the weathering process and soil formation;</p>	<p>Explain the following: The mineral particles found in a soil are also present in rocks dug in the same soil.</p>	<p>[Tej Rooney book 1]: pg 70 – 71 ex 1, 2, 3.</p> <p>(1) Describe the steps to raise a seedbed.</p>	<p>[Tej Rooney book 1]: To read and study 'Crop Production' (pg 53 – 68).</p>	<ul style="list-style-type: none"> • WHERE DOES SOIL COME FROM? https://www.soils4teachers.org/weathering
<p>b) describe the steps to raise seedbeds;</p>	<p>What are the steps for making a seed bed.</p>	<p>(2) Describe the different methods of sowing seeds on seedbeds. Give examples of crops grown for each method described.</p>		<ul style="list-style-type: none"> • Seed bed preparation https://www.youtube.com/watch?v=CBCVse1S0tc
<p>c) outline the importance of adding manure and fertilisers on a ploughed seedbed before sowing seeds or transplanting seedlings;</p>	<p>What is a fertile soil?</p>			<ul style="list-style-type: none"> • Adding Manure and fertilisers https://sites.google.com/site/cropsmanagement917/adding-manure-and-fertilisers

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d) describe the different methods of sowing seeds on seedbeds.

What are there different methods of sowing seeds.

- Sowing and methods of sowing
<http://ecoursesonline.iasri.res.in/mod/page/view.php?id=101087>



Topic: Crop Protection

Learning Objectives	Worked Examples	Classwork & Homework	Extra Work	Resources
<p>Students should be able to:</p> <p>a) explain the importance of crop protection;</p>	<p>Crop protection is an important principle of crop production. Why?</p>	<p>(1) Define crop pests. (2) Describe the</p> <p>(i) biological (ii) chemical</p>	<p>Tej Rooney book 3]: To read and study 'Crop Protection' (pg 2 – 9).</p>	
<p>b) define pests of crops;</p>	<p>Describe the mode of action of the pests namely</p> <p>-snails -birds -insects</p>	<p>(iii) cultural (iv) physical control of crop pests.</p>	<p>Analyse and identify pest attacks to crops in your garden.</p>	<ul style="list-style-type: none"> • Garden Insect Control - How To Control Garden Pests Without Insecticide / Pesticide https://www.youtube.com/watch?v=jrfn75QuOFg • 8 Ways to Control Common Garden Pests https://www.topline.ie/blog/project-ideas/8-ways-to-control-common-garden-pests
<p>c) give examples of some crop pests;</p>				
<p>d) describe the methods of crop pest control.</p>	<p>Describe the criteria to be considered before selecting a method of pest control.</p>			

Topic: Soil Erosion

Learning Objectives	Worked Examples	Classwork & Homework	Extra Work	Resources
<p>Students should be able to:</p> <p>a) define soil erosion;</p>	<p>Roots of plants are exposed in the air on some sea shores. Give an explanation.</p>	<p>(1) Define soil erosion.</p> <p>(2) Describe 2 effects of soil erosion in the field of agriculture.</p>	<p>[Tej Rooney book 2]: To read and study 'Soil erosion' (pg 28 – 31).</p>	<ul style="list-style-type: none"> Causes, Effects and Solutions of Soil Erosion https://www.conserve-energy-future.com/causes-effects-solutions-of-soil-erosion.php
<p>b) outline the causes of soil erosion;</p>	<p>(i) A sloppy land is exposed to more soil erosion than a flat land. Why? (ii) Soil erosion is more likely to occur after the harvest of a crop. Give 2 reasons.</p>	<p>(3) Give 2 ways how soil erosion can be controlled on sloppy land.</p> <p>(4) Give some examples and describe how permanent vegetative cover can help to prevent soil erosion.</p>		
<p>c) describe the effects or impacts of soil erosion;</p>	<p>There is loss of soil fertility after an erosion. Crop production is naturally decreased when soils are eroded.</p>			

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<p>d) elaborate on prevention of soil erosion.</p>	<p>The methods adopted to reduce soil erosion depend on soil topography and farming practices. Discuss.</p>			<ul style="list-style-type: none">• How to prevent soil erosion https://www.wikihow.com/Prevent-Soil-Erosion
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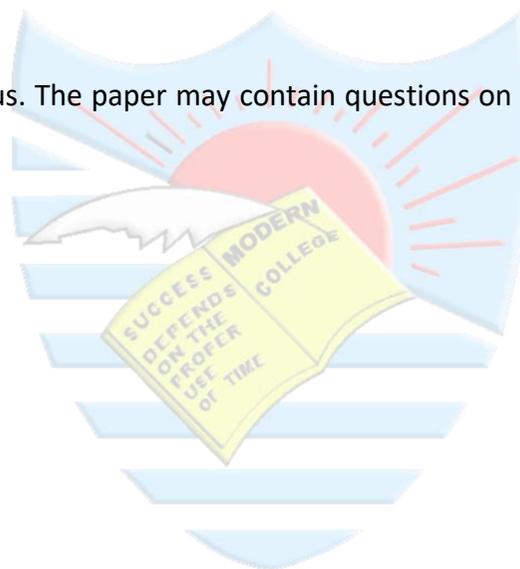
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July Assessment

Component	Time Allocation	Type	Maximum Mark
Paper 1	1 hour	MCQ & structured questions	50

Paper 1 will consist of about 5 short answer questions.

Candidates are expected to cover the PROPOSED syllabus. The paper may contain questions on any part of the syllabus and questions will not necessarily be restricted to a single topic.



THIRD TERM [12/08/2024 – 30/10/2024]

Topic: Crop Diseases

Learning Objectives	Worked Examples	Classwork & Homework	Extra Work	Resources
<p><i>Students should be able to:</i></p> <p>a) define crop pathogens;</p>	<p>What are microorganisms? Give examples of (i) bacterial (ii) fungal (iii) viral diseases of crops.</p>	<p>(1) Give two disadvantages of chemical control on crop pests and diseases. (2) Give some other methods apart from chemical control of crop pests and diseases.</p>	<p>Tej Rooney book 3]: To read and study 'Crop diseases' (pg 10 – 15).</p>	<ul style="list-style-type: none"> 10 Common Plant Diseases https://doctorgreen.com/10-common-plant-diseases/
<p>b) describe transmission and negative effects of bacteria, fungi and viruses on crops;</p>	<p>Give a positive effect of bacteria in the soil.</p>		<p>Analyse and identify crops affected with diseases in your garden.</p>	
<p>c) describe the methods of control of crop pathogens.</p>	<p>Describe how the following cultural practices can control crop diseases namely :</p> <p>(i) Regular weeding (ii) Sowing certified seeds (iii) Crop rotation</p>			<ul style="list-style-type: none"> Plant disease PLANT PATHOLOGY https://www.britannica.com/science/plant-disease/Chemical-control

Topic 2: Climate

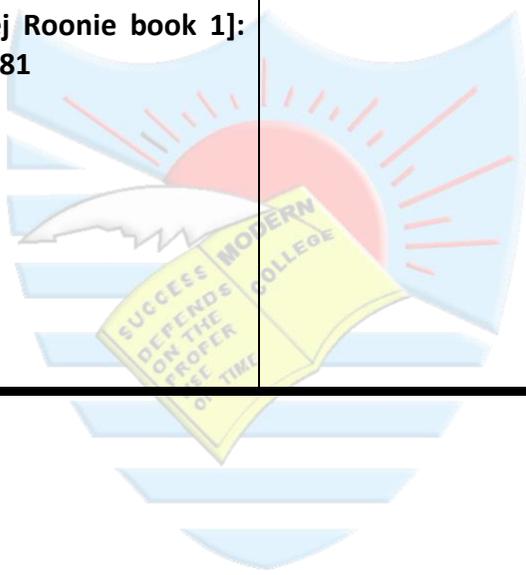
Learning Objectives	Worked Examples	Classwork & Homework	Extra Work	Resources	
<p>Students should be able to:</p> <p>a) elaborate on climatic factors affecting agriculture;</p>	Differentiate between climate and weather.	<p>[Tej Rooney book 1]: pg 35 – 38 ex 1, 2, 3, 4.</p>	<p>[Tej Rooney book 1]: To read and study 'Climate' (pg 25 – 33).</p>	<ul style="list-style-type: none"> Factors affecting crop production http://eagri.org/eagri50/AGRO101/lec09.pdf 	
<p>b) give name of instruments used to measure rainfall, sunlight, temperature, wind and humidity;</p>	Match the weather instruments to their functions(from handout).				
<p>c) describe the importance of the water cycle.</p>	Draw a model of the water cycle.			<ul style="list-style-type: none"> The water cycle https://www.khanacademy.org/science/high-school-biology/hs-ecology/hs-biogeochemical-cycles/v/the-water-cycle 	

Topic 6: Livestock Production

Learning Objectives	Worked Examples	Classwork & Homework	Extra Work	Resources
<p>Students should be able to:</p> <p>a) name the house of different livestock;</p>	<p>Give the names of the houses of the following livestock:</p> <p>(i) Pig (ii) Poultry (iii) Goat (iv) Cattle (v) Rabbit</p>	<p>[Tej Rooney book 1]: pg 86 – 87 ex 1, 2.</p> <p>(1) Name the main products of livestock rearing.</p>	<p>[Tej Rooney book 1]: To read and study 'Livestock Production' (pg 78 – 84).</p>	<ul style="list-style-type: none"> HOUSING FOR DAIRY CATTLE http://agritech.tnau.ac.in/animal_husbandry/animhus_cattle_housing.html
<p>b) describe the characteristics of a good animal housing;</p>	<p>Why must livestock housing be</p> <p>(i) strong (ii) well ventilated (iii) well insulated</p>	<p>(2) Name some by-products and their uses of the following farm animals:-</p>		
<p>c) name the male, female and young of some livestock;</p>	<p>Name the male, female and young of the following livestock:</p> <p>(i) poultry (ii) cattle (iii) sheep (iv) pig</p>	<p>(i) cattle (ii) goat (iii) sheep</p>		<ul style="list-style-type: none"> Male, Female & Baby Animal Names with Useful Images https://7esl.com/animal-names-male-female-young-animals/

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<p>d) distinguish between main and by-products of livestock rearing;</p>				
<p>e) give examples of by-products of livestock and their uses.</p>	<p>[Tej Roonie book 1]: pg 81</p>			<ul style="list-style-type: none">• Did You Know These Products Are Made From Cows? https://www.youtube.com/watch?v=lGwoOihpBOY

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October Assessment

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Paper 1	1 hour	MCQ & structured questions	50

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