

BOARD OF SCHOOL EDUCATION HARYANA

Syllabus and Chapter wise division of Marks (2024-25)

Class: 10th

Subject: Agriculture

Code: 029

General Instructions:

1. There will be an Annual Examination based on the entire syllabus.
2. The Annual Examination will be of 60 marks, Practical Examination will be of 20 marks and 20 marks weightage shall be for Internal Assessment.
3. For Practical Examination:
 - i) Two experiments of 6 marks each.
 - ii) One activity of 3 marks.
 - iii) Practical record of 2 marks.
 - iv) Viva-voce of 3 marks.

4. For Internal Assessment:

There will be Periodic Assessment that would include:

- i) For 4 marks- Two SAT exams will be conducted and will have a weightage of 04 marks towards the final Internal Assessment.
- ii) For 2 marks- One half yearly exam will be conducted and will have a weightage of 02 marks towards the final Internal Assessment.
- iii) For 2 marks- One pre-board exam will be conducted and will have a weightage of 02 marks towards the final Internal Assessment
- iv) For 2 marks- Subject teacher will assess and give maximum 02 marks for CRP (Classroom participation).
- v) For 5 marks- A project work to be done by students and will have a weightage of 05 marks towards the final Internal Assessment.
- vi) For 5 marks- Attendance of student will be awarded 05 marks as:
75% to 80% - 01 mark

Above 80% to 85% - 02 marks

Above 85% to 90% - 03 marks

Above 90% to 95% - 04 marks

Above 95% to 100% - 05 marks

Course Structure (2024-25)

Class: 10th

Subject: Agriculture

Code: 029

| Sr. no. | Chapter | Marks |
|---------|-------------------------|------------|
| 1 | Kharif crops | 10 |
| 2 | Rabi Crops | 08 |
| 3 | Vegetable crops | 10 |
| 4 | Dry Farming | 06 |
| 5 | Irrigation Drainage | 08 |
| 6 | Agriculture Implements | 12 |
| | Subsistence Agriculture | 06 |
| | Total | 60 |
| | Practical Examination | 20 |
| | Internal assessment | 20 |
| | Grand Total | 100 |

Chapter 1: Kharif crops

Study of following crops and their important varieties with respect to their climatic and soil requirement, area, preparation of seedbed, time of sowing, seed rate, manurial requirement, spacing, weeding, important pest diseases, harvesting, thrashing and yield etc. Rice, maize, sorghum, sorghum fodder, bajra, Moong, arhar, sunflower, groundnut, sesame Cotton and sugarcane.

Chapter 2: Rabi Crops

Study of following crops and their important varieties with respect to their climatic and soil requirement, area, preparation of seedbed, time of sowing, seed rate, manurial requirements, spacing, weeding, important pest diseases, harvesting, thrashing and yield etc. Wheat, Oat, Barley, Chickpea, Lentil, Rapeseed Mustard and Berseem.

Chapter 3: Vegetable crops

Study of following crops and their important varieties with respect to their climatic and soil requirement, area, preparation of seedbed, time of sowing, seed rate, manurial requirements, spacing, weeding, important pest diseases, harvesting, thrashing and yield etc. Tomato, brinjal, chili okra, bottle gourd, bitter gourd, radish, carrot, Potato, cauliflower, cabbage, spinach, onion and garlic.

Chapter 4: Dryland Farming

Definition, concept, classification and characteristics of dryland farming, dryland versus rainfed farming, constraints limiting crop production in dryland areas. Water shed management, Water harvesting, Selection of suitable crops, crop rotations and crop mixtures for various categories of dry land areas. Critical stages of life saving irrigation.

Chapter 5: Irrigation and drainage

Importance and role of water in crop production, water stress and its effect on crop growth, irrigation: definition, source of irrigation, Scheduling and methods of irrigation, prevention of water losses and water use efficiency, Drainage and methods of drainage, adverse effect of water logging on soil and crop growth; irrigation strategies under limited water conditions; micro/pressure irrigation: sprinkler, drip irrigation.

Chapter 6: Agriculture implements

Farm power machinery- advantages and disadvantages, Tillage - primary and secondary tillage, M.B. plough – functions, Harrows – types and functions, functions of cultivator and rotavator, Sowing equipment - seed cum fertilizer drills – types and functions, Paddy trans planters, Plant protection equipment – types of sprayers. Harvesting and threshing equipments.

Chapter 7: Subsistence agriculture

Subsistence agriculture- definition, nature, characteristics, merits and demerits. Methods of cultivation of subsistence agriculture, Importance of subsistence agriculture in Haryana.

Practicals:

1. Identification of kharif crops and preparation of herbarium.
2. Identification of rabi crops and preparation of herbarium.
3. Identification of vegetable crops and preparation of herbarium.
4. Collection and identification of seeds of different crops.
5. Studies on different mulching material.
6. Visit to rainfed research station/ watershed.
7. Identification of different farm implements and their uses.

Month wise Syllabus Teaching Plan (2024-25)

Class: 10th

Subject: Agriculture

Code: 029

| Month | Subject- content | Teaching Periods | Revision Periods | Practical work |
|--------------|---|------------------|------------------|----------------|
| April | Chapter 1: Kharif crops: Up to moong Preparation: Identification of kharif crops and preparation of herbarium. | 12 | 05 | 3 |
| May | Chapter 1: Kharif crops: Arhar to sugarcane | 12 | 5 | |
| June | Summer vacation (Project Work & Assignments) | | | |
| July | Chapter 2: Rabi Crops Practical: Identification of rabi crops and preparation of herbarium. | 12 | 5 | 2 |

| | | | | |
|------------------|---|----|----|------------|
| August | Chapter 4: Dryland Farming Practical: Studies on different mulching material. Visit to rainfed research station/ watershed. | 12 | 5 | 2 2 |
| September | Revision Half Yearly Exam | | 12 | |
| October | Chapter 5: Irrigation and drainage | 12 | 5 | |
| November | Chapter 2: Vegetable Crops Practical: Identification of vegetable crops and preparation of Herbarium. | 12 | 5 | 3 |
| December | Chapter 6: Agriculture implements. Practical: Identification of different farm implements and their uses. | 12 | 5 | 3 |
| January | Chapter 7: Subsistence agriculture | 15 | 5 | |

| | | | | |
|-----------------|-----------------------------------|--|----|--|
| February | Revision Annual Practical Exam | | 10 | |
| March | Annual Examination | | | |

Note: Subject teachers are advised to direct the students to prepare notebook of the Terminology/ Definitional words used in the chapters for enhancement of vocabulary or clarity of the concept.



Question Paper Design (2024-25)

Class: 10th

Subject: Agriculture

Code: 029

Time :- 2:30 hours

| Type of Question | Marks | Number | Description | Total Marks |
|---------------------------------|-------|--------|---|-------------|
| Objective Questions | 1 | 15 | 6 Multiple Choice Questions, 3 Fill in the Blanks Questions, 3 One Word Answer Type Questions, 3 Assertion-Reason Questions | 15 |
| Very Short Answer Type Question | 2 | 6 | Internal choice will be given in any 2 questions | 12 |
| Short Answer Type Question | 3 | 6 | Internal choice will be given in any 2 questions | 18 |
| Essay Answer Type Question | 5 | 3 | Internal options will be given in all the questions | 15 |
| Total | | 30 | | 60 |