BOARD OF SCHOOL EDUCATION HARYANA

Syllabus and Chapter wise division of Marks (2023-24)

Class- 10th Subject: Agriculture Code:

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 (Class room 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.
   v) For 5 marks- Attendance of student will be awarded 05 marks as:

   75% to 80% - 01 marks
   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 (2023-24)

Class-10 **Subject: Agriculture** **Code:**

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
7	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 varities with respect to their climatic and soil requirenment, area, preparation of seedbed, time of sowing, seed rate, manurial requirenment, 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 varities with respect to their climatic and soil requirenment, area, preparation of seedbed, time of sowing, seed rate, manurial requirenment, 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 varities with respect to their climatic and soil requirenment, area, preparation of seedbed, time of sowing, seed rate, manurial requirenment, spacing, weeding, important pest diseases, harvesting, thrashing and yield etc.
Tomato, brinjal, chilli 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, characterstics, merits and demerits. Methods of cultivation of subsistence agriculture, Importance of subsistence agriculture in Haryana**.**

Practicals:

1. Identification of *kharif* crops and préparation of herbarium.
2. Identification of *rabi* crops and préparation of herbarium.
3. Identification of vegetable crops and préparation 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.

Monthwise Syllabus Teaching Plan (2023-24)

Class-10 Subject: Agriculture Code:

Month	Unit chapter and Topic	Teaching Periods	Revision Periods	Practical work
April	**Chapter 1: *Kharif* crops** Study of following crops and their important varities with respect to their climatic and soil requirenment, area, preparation of seedbed, time of sowing, seed rate, manurial requirenment, spacing, weeding, important pest diseases, harvesting, thrashing and yield etc. Cotton, maize, sorghum, sorghum fodder, bajra, Moong, **Practical:** 1. Identification of *kharif* crops and préparation of herbarium.	12 04 02 02 02 02	5	3
May	**Chapter 1: *Kharif* crops** Study of following crops and their important varities with respect to their climatic and soil requirenment, area, preparation of seedbed, time of sowing, seed rate, manurial requirenment, spacing, weeding, important pest diseases, harvesting, thrashing and yield etc. arhar, sunflower, groundnut, sesame, Rice, sugarcane	12 01 02 02 04 03	5	
June	Summer vacation			

July	**Chapter 3: Vegetable crops** Study of following crops and their important varities with respect to their climatic and soil requirenment, area, preparation of seedbed, time of sowing, seed rate, manurial requirenment, spacing, weeding, important pest diseases, harvesting, thrashing and yield etc. Tomato, brinjal, chilli, okra, bottle gourd, bitter gourd, radish, carrot, Potato, cauliflower, cabbage, spinach, onion and garlic. **Practical:** 2. Identification of vegetable crops and préparation of herbarium.	12 03 01 02 02 02 02	5	3
August	**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. **Practical:** 3. Studies on different mulching material. 4. Visit to rainfed research station/ watershed	12 03 03 03 03	5	04
September	Revision for Half-yearly Exam Half-yearly exam		12	

October	**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.	12 02 03 03 02 02	5	
November	**Chapter 2: Rabi Crops** Study of following crops and their important varities with respect to their climatic and soil requirenment, area, preparation of seedbed, time of sowing, seed rate, manurial requirenment, spacing, weeding, important pest diseases, harvesting, thrashing and yield etc. Wheat, Oat, Barley, Chickpea, Lentil, Rapeseed Mustard and Berseem. **Practical:** 5. Identification of rabi crops and préparation of herbarium. 6. Collection and identification of seeds of different crops.	12 04 04 04	5	06

December	**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. **Practical:** 7. Identification of different farm implements and their uses.	12 02 02 02 03 03	5	3
January	**Chapter 7: Subsistence agriculture** Subsistence agriculture- definition, nature, characterstics, merits and demerits. Methods of cultivation of subsistence agriculture, Importance of subsistence agriculture in Haryana**.** Revision	05 02 03	12	
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(2023-24)

Class- 10th Subject: Agriculture Code:

Type of Question	Marks	Number	Description	Total Marks
Objective type	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	2	6	Internal choice will be given In any 2 questions	12
Short answer	3	6	Internal choice will be given in any 2 questions	18
Essay type	5	3	Internal options will be given in all the questions	15
Total		30		60