



**Maharashtra State Board of Secondary and
Higher Secondary Education, Pune**
Subject : Agriculture Science & Technology (75)
Std. XII

Weightage to Units			
Sr. No.	Name of the Chapter	Marks	Marks with option
1.	Traditional Crops	09	12
2.	Commercial Crops	09	12
3.	Modes of Reproduction	04	08
4.	Seed Production Technology	04	12
5.	Farm Management	05	11
6.	Nursery Management	06	06
7.	Green House Technology	05	05
8.	Seed Processing and Testing	04	06
9.	Mushroom Production	05	05
10.	Agro Tourism	02	06
11.	Organic Farming	03	06
12.	Agro Informatics	04	06
13.	Agricultural Marketing	05	05
14.	Preservation	05	05
	Total	70	105



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Distribution of Marks as per the objectives

Sr. No.	Objectives	Net Marks	Marks with option
1.	Knowledge	14	14
2.	Understanding	14	28
3.	Application	28	42
4.	Skill	14	21
	Total	70	105

Questionwise distribution of marks

Sr. No.	Question type	Net Marks	Percentage	Marks with option
1.	Objective	18	25	18
2.	Short Answer	38	55	59
3.	Long answer	14	20	28
	Total	70	100	105



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Format of Question Paper for Annual Examination.

Time : 3.00 hrs.

Marks : 70

Q.1 A) Select the appropriate alternative and complete the following statements. (05)

- | | | | | |
|----|----|----|----|----|
| 1) | a) | b) | c) | d) |
| 2) | a) | b) | c) | d) |
| 3) | a) | b) | c) | d) |
| 4) | a) | b) | c) | d) |
| 5) | a) | b) | c) | d) |

(B) Make the pairs (04)

Group "A"

- 1)
- 2)
- 3)
- 4)

Group "B"

- a)
- b)
- c)
- d)
- e)
- f)

(C) Find odd one out (04)

- 1) _____
- 2) _____
- 3) _____
- 4) _____

(D) Write true or false **(05)**

- 1) _____
- 2) _____
- 3) _____
- 4) _____
- 5) _____

Q. 2) Answer in brief (Any Five) **(10)**

- 1) _____
- 2) _____
- 3) _____
- 4) _____
- 5) _____
- 6) _____
- 7) _____

Q. 3) Answer the following questions. (Any four) **(12)**

- 1) _____
- 2) _____
- 3) _____
- 4) _____
- 5) _____
- 6) _____
- 7) _____

Q. 4) Answer the following questions. (Any four) **(16)**

- 1) _____
- 2) _____
- 3) _____
- 4) _____
- 5) _____
- 6) _____

Q. 5) A) Answer the following questions in detail. (Any one) **(06)**

- 1) _____
- 2) _____

B) Answer the following questions in detail. (Any one) **(08)**

- 1) _____
- 2) _____



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Agriculture Science and Technology
Practical Syllabus
Std - XII

List of Practicals

1. Calculation of plant population for given area.
2. Calculation of actual quantity of fertilizers for different crops and calculation of unit value (cost of fertilizer per kg)
3. Practicing different methods of fertilizer application for wheat, paddy and soybean.
4. Practicing layout of sugarcane planting and set treatment.
5. Practicing asexual methods of propagation viz: cutting, layering, budding and grafting.
6. Emasculation and pollination in cotton.
7. Preparation of cropping scheme and calendar of operations.
8. Practicing various nursery operations.
9. Evaluation of seedlings after germination and calculation of seed germination percentage.
10. Seed treatment with chemicals and biofertilizers.
11. Use of computer, internet and smart phones for collection and communication of agricultural information
12. Preparation of mushroom pickle.
13. Practicing various green house operations.
14. Preparation of jam, sauce and pickles.
15. Practicing post harvest operations in handling of agricultural produce.
16. Study of cost of cultivation of some crops.
17. Awareness in purchasing, storage and application of agricultural inputs.
18. Preparation of crop cafeteria and writing of reports in journal.

Visits

- At least four visits from the following list should be conducted.
 - Separate section of visit report should be written in the journal.
1. Visit to tissue culture unit.
 2. Visit to hightech nursery.
 3. Visit to seed processing plant/seed testing laboratory.
 4. Visit to polyhouse.
 5. Visit to Agrotourism centre.
 6. Visit to organic farming unit.
 7. Visit to agriculture produce market committee (APMC).
 8. Visit to allied agriculture enterprises (Sugar factory, Jaggery plant, Dal mill, Oil extraction plant, Processing industry).

Project work

- Complete any one of the following projects.
1. Preparation of seed album.
 2. Collection of farm records.
 3. Preparation of seedling for transplanting.
 4. Collection of mushroom samples.
 5. Preparation of album of diseased plant parts.



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Specimen question paper (Practical)
Std. : XII

Subject : Agriculture Science & Technology (75)

Time : 3.00 hrs.

Marks : 30

Q. 1 Identification 6

A. Identify

B. Subquestion

Note : In all 6 Specimens should be kept, each carrying 1 mark (1/2 mark for identification and 1/2 mark for correct answer of subquestion)

Q. 2 Solve any two of the following. 6

A. Mathematical problem from practical syllabus (viz. plant population/seed germination percentage)

B. Mathematical problem from practical syllabus (viz. quantity of fertilizers/unit value of fertilizers)

C. Theoretical question from practical syllabus.

Q. 3 Practical exercise (any one) 6

A. Layering/budding/grafting

B. Emasculation and pollination in cotton

C. Fertilizer application

D. Evaluation of seedlings after germination

E. Use of computer or smart phone and internet.

F. Layout of sugarcane planting or set treatment

G. Seed treatments with chemicals and bio-fertilizers

Q. 4 A. Viva-voce - 02 6

B. Journal - 04

Q. 5 A. Project report - 03 6

B. Visit report - 03

Any one report on project and the visit actually given by the student during the academic year.



महाराष्ट्र राज्य माध्यमिक व उच्च माध्यमिक शिक्षण मंडळ, पुणे

विषय - कृषि विज्ञान आणि तंत्रज्ञान (७५)

इयत्ता - १२ वी

लेखी व प्रात्यक्षिक परीक्षा मूल्यमापन आराखडा

अ.क्र.	परीक्षा	गुण	वेळ
१	प्रथम सत्र परीक्षा (लेखी)	५० गुण	अडीच तास

सराव परीक्षा व अंतिम बोर्ड परीक्षा

अ.क्र.	परीक्षा	गुण	वेळ
१	लेखी परीक्षा	७० गुण	तीन तास
२	प्रात्यक्षिक परीक्षा	३० गुण	तीन तास