aglasem.com

FOR MANIPUR CLASS 12 PREPARATION

Manipur Board Class 12 Syllabus 2027 Agriculture

EXAM	YEAR	TYPE	SUBJECT
Manipur Class 12	2027	Syllabus	Agriculture

FOR THE ACADEMIC SESSION 2024-25

DESIGN OF QUESTION PAPER

Subject : AGRICULTURE
Paper : Theory
Class : XII
Full Marks : 70
Time : 3 Hours

<table>
<tr><td rowspan="6">I.</td><td colspan="5">WEIGHTAGE TO OBJECTIVES :</td></tr>
<tr><td colspan="3">Objectives</td><td>Marks</td><td>Percentage</td></tr>
<tr><td colspan="3">Knowledge (K)</td><td>14</td><td>20</td></tr>
<tr><td colspan="3">Understanding (U)</td><td>32</td><td>46</td></tr>
<tr><td colspan="3">Application (A)</td><td>21</td><td>30</td></tr>
<tr><td colspan="3">Skill (S)</td><td>3</td><td>4</td></tr>
<tr><td colspan="3">Total :</td><td>70</td><td>100</td></tr>
<tr><td rowspan="8">II.</td><td colspan="5">WEIGHTAGE TO FORM OF QUESTIONS :</td></tr>
<tr><td>Form of questions</td><td>No. of Questions</td><td>Time (in minutes)</td><td>Marks</td><td>Percentage</td></tr>
<tr><td>Essay/Long Ans. (E/LA)</td><td>3</td><td>60</td><td>15</td><td>21</td></tr>
<tr><td>Short Ans. (SA-I)</td><td>6</td><td>36</td><td>18</td><td>26</td></tr>
<tr><td>Short Ans. (SA-II)</td><td>10</td><td>40</td><td>20</td><td>29</td></tr>
<tr><td>Very Short Answer (VSA)</td><td>10</td><td>30</td><td>10</td><td>14</td></tr>
<tr><td>MCQ</td><td>7</td><td>14</td><td>7</td><td>10</td></tr>
<tr><td>Total :</td><td>36</td><td>180</td><td>70</td><td>100</td></tr>
<tr><td rowspan="8">III.</td><td colspan="5">WEIGHTAGE TO CONTENTS :</td></tr>
<tr><td colspan="3">Unit / Content:</td><td>Marks</td><td>Percentage</td></tr>
<tr><td>I.</td><td>Advance Crop Production and Organic Farming</td><td>i) Advance Crop Production</td><td>16</td><td>23</td></tr>
<tr><td></td><td></td><td>ii) Organic Farming</td><td>9</td><td>13</td></tr>
<tr><td>II.</td><td>Post Harvest Management, Food Processing and Value Addition</td><td>i) Post Harvest Management</td><td>7</td><td>10</td></tr>
<tr><td></td><td></td><td>ii) Food Processing and Value Addition</td><td>20</td><td>28</td></tr>
<tr><td>III.</td><td>Subsidiary Enterprises of Agriculture</td><td>i) Subsidiary Enterprises in Agriculture</td><td>18</td><td>26</td></tr>
<tr><td colspan="3">Total :</td><td>70</td><td>100</td></tr>
<tr><td>IV.</td><td colspan="5">SCEHEME OF SECTIONS : I,II and III</td></tr>
<tr><td>V.</td><td colspan="5">SCHEME OF OPTIONS : Internal option may be given in Essay Type Question & SA-I</td></tr>
<tr><td>VI.</td><td colspan="5">DIFFICULTY LEVEL :
Difficult : 30 %
Average : 50 %
Easy : 20%</td></tr>
</table>

Abbreviation : K(Knowledge), U(Understanding), C(Comprehension), Exp.(Expression), Skill(S), E(Essay Type), SA (Short Answer Type), VSA (Very Short Answer Type), MCQ(Multiple Choice Question)

FROM THE ACADEMIC SESSION 2025-26

DESIGN OF QUESTION PAPER

Subject : AGRICULTURE
Paper : Theory
Class : XII
Full Marks : 70
Time : 3 Hours

I. WEIGHTAGE TO OBJECTIVES :

Objectives	Marks	Percentage
Knowledge (K)	10	15
Understanding (U)	35	50
Application (A)	21	30
Skill (S)	04	05
Total :	**70**	**100**

II. WEIGHTAGE TO FORM OF QUESTIONS :

Form of questions	No. of Questions	Time (in minutes)	Marks	Percentage
Essay/Long Ans. (E/LA)	03	60	15	21
Short Ans. (SA-I)	06	37	18	26
Short Ans. (SA-II)	10	40	20	29
Very Short Answer (VSA)	07	21	07	10
MCQ	10	22	10	14
Total :	**36**	**180**	**70**	**100**

III. WEIGHTAGE TO CONTENTS :

Unit / Content:			Marks	Percentage
A	Advance Crop Production and Organic Farming	i) Advance Crop Production	16	23
		ii) Organic Farming	9	13
B	Post Harvest Management, Food Processing and Value Addition	i) Post Harvest Management	7	10
		ii) Food Processing and Value Addition	20	28
C.	Subsidiary Enterprises of Agriculture	i) Subsidiary Enterprises in Agriculture	18	26
Total :			**70**	**100**

IV. SCEHEME OF SECTIONS : A, B and C

V. SCHEME OF OPTIONS : Internal option may be given in Essay Type Question

VI. DIFFICULTY LEVEL :

Difficult : 35 % of the total marks
Average : 50 % of the total marks
Easy : 15 % of the total marks

Abbreviation : K(Knowledge), U(Understanding), C(Comprehension), Exp.(Expression), Skill(S), E(Essay Type), SA (Short Answer Type), VSA (Very Short Answer Type), MCQ(Multiple Choice Question)

AGRICULTURE

Theory

Class XII

One paper **Time :3 hours** **70 marks**

Section	Titles	Marks	
		Unitwise	Total
I	**Advanced Crop Production and Organic Farming**		
	Unit I : Advance Crop Production	16	
	Unit II: Organic Farming	09	25
II	**Post-Harvest Management, Food Processing and Value Addition**		
	Unit III: Post-Harvest Management	07	
	Unit IV: Food Processing and Value Addition	20	27
III	**Subsidiary Enterprises of Agriculture Unit**Unit		
	V: Subsidiary Enterprises in Agriculture	18	18
	Total		**70**

SECTION - I

- Unit- I: Advanced Crop Production
- Soil fertility, productivity and concept of essential plant nutrients. Classification of essential plant nutrients.
- Roles and functions of essential plant nutrients, their important deficiency symptoms.
- Introduction to manure, fertilizers, Bio-fertilizers, their methods of application. Concept of Integrated Nutrient Management (INM).
- Various irrigation methods. Concept of precision and pressure irrigation - Drip and sprinkler irrigation.
- Methods of insect pest and disease management - Chemical, Biological and Mechanical. Concept of Integrated Pest Management (IPM).

Unit - II: Organic Farming

- Concept, history and importance of Organic farming.
- Important food products grown organically. Important Government Schemes for the promotion of organic farming in our country. Kitchen gardening.

SECTION-II

Unit III: Post Harvest Management

Post harvesting management of fruits, vegetables and flowers, cereals, pulses and oilseeds.

Important Government schemes for food sector.

Unit IV: Food Processing and Value Addition

- Principles and methods of food processing and preservation. Benefits of food processing.
- Important value added products from fruits, vegetables, cereals, pulses and oil seeds. Preparation of jam, jelly, ketchup, , pickles, juice.
- Flowers and their harvesting: important processed flower products, packaging, storage and their marketing.
- Concept of safe food and important food regulations.

SECTION-III

Unit V: Subsidiary Enterprises in Agriculture

- Important subsidiary enterprises based on Agriculture including Horticulture and their importance in the socio-economic status of an individual.
- Mushroom, their nutritional status and methods of production
- Beekeeping and its important usage and importance of Honey, Wax and Royal jelly.
- Preparation of Bio-pesticides (plant based), Organic manures (composts) and Vermicomposting.

*****

AGRICULTURE
CLASS XII
(PRACTICAL)

One Practical Paper **30 Marks** **Time: 3 Hours**

Section	Titles	Marks
I	Advanced Crop Production and Organic Farming	08
II	Post-Harvest Management, Food Processing and Value Addition	06
III	Subsidiary Enterprises in Agriculture	06
IV	Collection and Visit Report	05
V	Viva Voce	05
	Total	30

SECTION: I

Unit I: Advanced Crop Production and Organic Farming

(a) Soil sampling and determination of Soil pH.
(b) Determination of soil organic carbon content.
(c) Preparation of nursery and seed beds.
(d) Seed treatment with fungicides and Bio-fertilizers.
(e) (e) Identification of different types of chemical fertilizers, composts, bio-fertilizers.
(f) Calculation of fertilizer requirement of crops (for wheat, rice and maize) based on their nutrient needs.
(g) Preparation of FYM and Compost.
(h) Calibration & dusters for pest control.
(i) Determination of moisture content of crop seeds (wheat, rice, maize and mustard).
(j) To find out 100-grain weight of crop seeds (wheat, rice, maize and mustard).
(k) Visit to a crop field and compare healthy plant with a diseased and insect affected plant.
(l) Calculation of different types of Insecticides, Fungicides and Herbicides.

SECTION: II

Unit II: Post-Harvest Management , Food Processing and Value Addition

(a) Visit to Bakery Unit, Local Chakki.
(b) Preparation of Jam, Jelly, ketchup and Morabba
(c) Drying of fruits, vegetables and flowers.
(d) Preparation of pickles.
(e) Identification of fresh and aged vegetables and fruits.
(f) Visit to cold storage and record the storage of various fruits and vegetables.
(g) Harvesting and packaging of flowers.
(h) Preparation of flower arrangements such as garland and rangoli.
(i) Visit to a flower mandi and record the activities in the mandi.
(j) Visit to a local fruit market and record the activities in the market.

SECTION: III

Unit III: Subsidiary Enterprises in Agriculture

(a) Preparation of plant based bio-pesticides (neem)
(b) Visit to Mushroom production unit.
(c) Visit to nearby apiary and record the process of beekeeping.
(d) Observe the characteristics of different bee products (honey and wax).
(e) Visit to a vermicomposting unit.
(f) Observe the characteristics of compost.

Notes:

1) The students have to prepare a report on the visits recording their observations on the subject.
2) In case of practical of fruit and vegetable preservation and methods of production of value added products from fruits and vegetables, the student will have to write the procedure adopted and the necessary precautions to be taken in the answer sheet provided.

SECTION – IV

Report on the Visits

The student have to prepare a report of their visit to different organizations and submit to Subject teacher for the evaluation. The report must contain the student's original work and observations.

SECTION – V

Viva Voce

Students can be asked questions based on:

(i) Identification of objects.
(ii) Visit Report analysis.
(iii) Experiences in their field visits, etc.

A range of 5 to 10 questions can be asked depending on the response of the student. Evaluation 5x1=5 Or should be based on number of questions answered. Evaluator should stick to the time and ½x10=5 number of questions.

PRESCRIBED TEXT BOOKS FOR CLASSES XI AND XII:

1. Handbook of Animal Husbandry
   Published by : Directorate of Information and Publications of Agriculture, Indian Council of Agricultural Research, Krishi Anusandhan Bhavan, Pusa, New Delhi – 110012.

2. A Text Book of Animal Husbandry by G.C. Banerjee
   Published by Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi.

3. Hand Book of Agriculture – ICAR publication
   or
   Hand Book of Agriculture by S.C. Panda,
   Published by : J.V. Publishing House, Jodhpur.

4. A text book of Plant Breeding by Purohit & Purohit,
   Published by : J.V. Publishing House, Jodhpur.

5. A text book of Genetics by Purohit & Purohit,
   Published by : J.V. Publishing House, Jodhpur.

6. A text book of Production Technology of fruits crops by Prasad & Raju,
   Published by : J.V. Publishing House, Jodhpur.

7. A text book of Production Technology of Vegetables & Flowers by Prasad , Raju & Bhardwaj,
   Published by : J.V. Publishing House, Jodhpur

8. A text book of Field Crops by Mukund Joshi,
   Published by : PHI Learning Private Ltd., Delhi.

*****