

CERTIFICATE/DIPLOMA IN ORGANIC FARMING

Objectives:

- 1) To create awareness about organic farming.
- 2) To familiarize with organic crop management practices, organic standards and certification

Duration of the Course:

Certificate: 6 months

Diploma: 1 Year

Eligibility:

Any student enrolled in the degree program of the college.

Subjects covered under Certificate Course are Sr No. 1,2 and 3	
Name of Paper	Credits
GC-OF-01T Organic Farming -I	06
GC-OF-02T Organic Farming-II	06
GC-OF-03P Practical and Project-I	06
Subjects covered under Diploma Course are Sr No. 1,2,3,4,5 and 6	
GC-OF-04T Organic Farming-I	06
GC-OF-05T Organic Farming-II	06
GC-OF-06P Practical and Project-II	06

Organic Farming I

Total Marks: 100
External Marks: 70
Internal Marks: 30
Credits: 6
Pass Percentage: 35%

INSTRUCTIONS FOR THE PAPER SETTER/EXAMINER:

1. The syllabus prescribed should be strictly adhered to.
2. The question paper will consist of three sections: A, B, and C. Sections A and B will have four questions from the respective sections of the syllabus and will carry 10 marks each. The candidates will attempt two questions from each section.
3. Section C will have fifteen short answer questions covering the entire syllabus. Each question will carry 3 marks. Candidates will attempt any ten questions from this section.
4. The examiner shall give a clear instruction to the candidates to attempt questions only at one place and only once. Second or subsequent attempts, unless the earlier ones have been crossed out, shall not be evaluated.
5. The duration of each paper will be three hours.

INSTRUCTIONS FOR THE CANDIDATES:

Candidates are required to attempt any two questions each from the sections A and B of the question paper and any ten short questions from Section C. They have to attempt questions only at one place and only once. Second or subsequent attempts, unless the earlier ones have been crossed out, shall not be evaluated.

Section-A

Unit I -Agronomy - Organic farming- concept, characteristics, significance, organic ecosystem, scope of organic farming in India

- Principles and types of organic farming

Unit II - Soil Science

- Organic farming for sustainable agriculture; Manures- compost, methods of composting
- Green manuring, **vermicompost** and biofertilizer

Section-B

Unit III - Fundamental of organic farm management

- Land management in organic farming
- Water management in organic farming

Unit IV - Post harvest management

- Processing, labeling of organic produce
- Storage and transport of organic produce

Organic Farming II

Total Marks: 100
External Marks: 70
Internal Marks: 30
Credits: 6
Pass Percentage: 35%

INSTRUCTIONS FOR THE PAPER SETTER/EXAMINER:

1. The syllabus prescribed should be strictly adhered to.
2. The question paper will consist of three sections: A, B, and C. Sections A and B will have four questions from the respective sections of the syllabus and will carry 10 marks each. The candidates will attempt two questions from each section.
3. Section C will have fifteen short answer questions covering the entire syllabus. Each question will carry 3 marks. Candidates will attempt any ten questions from this section.
4. The examiner shall give a clear instruction to the candidates to attempt questions only at one place and only once. Second or subsequent attempts, unless the earlier ones have been crossed out, shall not be evaluated.
5. The duration of each paper will be three hours.

INSTRUCTIONS FOR THE CANDIDATES:

Candidates are required to attempt any two questions each from the sections A and B of the question paper and any ten short questions from Section C. They have to attempt questions only at one place and only once. Second or subsequent attempts, unless the earlier ones have been crossed out, shall not be evaluated.

Section-A

Unit I - Agronomy

- Choice of crops & varieties in organic farming
- Initiative by Govt/NGOs/Other organizations for promotion of organic farming

Unit II - Soil Science

- Harmful effect of non-judicious chemical fertilization
- Organic farming practices for improving soil health

Section-B

Unit III - Fundamental of organic farm management

- Organic insect disease management
- Organic pest disease management

Unit IV - Post harvest management

- Organic Quality control standards
- Certification- types, process & procedure and agencies

Practical and Project I

Total Marks: 100
External Marks: 70
Internal Marks: 30
Credits: 6
Pass Percentage: 35%

Practical:

- 1) Field visit of organic farming
Max. Marks: 50
- 2) Seed and seed treatment
Theory: 40
- 3) Preparation of Farm Yard Manure (FYM) & compost
Int. Ass.: 10
- 4) Water management in organic agricultural
Periods: 4 hrs. / week

Scheme of practical examination

Internal practical examination	40 marks
I) Preparation	20 marks
II) Identification	10 marks
III) Submission of practical record book	5 marks
IV) Viva – Voce	5 marks

References:

- 1) Palaniappan S.P and Annadurai K (2010) Organic Farming Theory and Practice Ist Edition Scientific Publishers, Rajasthan
- 2) Bansal M (2018) Basics of Organic Farming. CBS Publishers and Distributors Pvt Ltd, New Delhi
- 3) Sheaffer C and Moncada K(2012) Introduction to Agronomy : Food , Crops and Environment IInd Edition , Cengage Learning Publishers , Boston , U.S
- 4) Das K.D(2015) Introductory Soil Science 4th Edition , Kalyani Publishers , New Delhi
- 5) Mahender G P , Singh H, Kumar V. and Singh N (2018) Botanicals in Insect Pest Management , Anu Books , New Delhi

Organic Farming III

Total Marks: 100
External Marks: 70
Internal Marks: 30
Credits: 6
Pass Percentage: 35%

INSTRUCTIONS FOR THE PAPER SETTER/EXAMINER:

1. The syllabus prescribed should be strictly adhered to.
2. The question paper will consist of three sections: A, B, and C. Sections A and B will have four questions from the respective sections of the syllabus and will carry 10 marks each. The candidates will attempt two questions from each section.
3. Section C will have fifteen short answer questions covering the entire syllabus. Each question will carry 3 marks. Candidates will attempt any ten questions from this section.
4. The examiner shall give a clear instruction to the candidates to attempt questions only at one place and only once. Second or subsequent attempts, unless the earlier ones have been crossed out, shall not be evaluated.
5. The duration of each paper will be three hours.

INSTRUCTIONS FOR THE CANDIDATES:

Candidates are required to attempt any two questions each from the sections A and B of the question paper and any ten short questions from Section C. They have to attempt questions only at one place and only once. Second or subsequent attempts, unless the earlier ones have been crossed out, shall not be evaluated.

Section-A

Unit I - Agronomy

- Operational structure of NPOP (National Programme for Organic Production)
- Concept of dryland agronomy

Unit II - Soil Science

- Quality parameters of organic manures and specifications
- Soil fertility in organic farming systems

Section-B

Unit III - Fundamental of organic farm management

- Preventive and cultural methods for insects and pest control
- Identification of different fungal and bacterial biocontrol agents

Unit IV - Post harvest management

- Quality aspect and grading
- Packaging and handling

Organic Farming IV

Total Marks: 100
External Marks: 70
Internal Marks: 30
Credits: 6
Pass Percentage: 35%

INSTRUCTIONS FOR THE PAPER SETTER/EXAMINER:

1. The syllabus prescribed should be strictly adhered to.
2. The question paper will consist of three sections: A, B, and C. Sections A and B will have four questions from the respective sections of the syllabus and will carry 10 marks each. The candidates will attempt two questions from each section.
3. Section C will have fifteen short answer questions covering the entire syllabus. Each question will carry 3 marks. Candidates will attempt any ten questions from this section.
4. The examiner shall give a clear instruction to the candidates to attempt questions only at one place and only once. Second or subsequent attempts, unless the earlier ones have been crossed out, shall not be evaluated.
5. The duration of each paper will be three hours.

INSTRUCTIONS FOR THE CANDIDATES:

Candidates are required to attempt any two questions each from the sections A and B of the question paper and any ten short questions from Section C. They have to attempt questions only at one place and only once. Second or subsequent attempts, unless the earlier ones have been crossed out, shall not be evaluated.

Section-A

Unit I - Agronomy

- Organic nutrient resources & their fortification, restriction to nutrient use in organic farming

- Organic production methods for cereals, vegetables and fruit crops

Unit II - Soil Science

- Manure preparation methodology

- Soil improvement

Section-B

Unit III - Fundamental of organic farm management

- Indigenous technical knowledge for insects-pest, disease
- Weed and nutrient management in organic farming

Unit IV - Post harvest management

- Economic considerations and viability of organic products
- Export of organic product and marketing

Practical and Project II

Total Marks: 100
External Marks: 70
Internal Marks: 30
Credits: 6
Pass Percentage: 35%

Practical :

- 1) Crop planning & management in organic agriculture
Max. Marks : 50
- 2) Identification of different fungal and bacterial biocontrol agents
Theory : 40
- 3) Application of manures and composts
Int. Ass. : 10
- 4) Preparation of plant protection inputs
: 4 hrs / week
- 5) Application of plant protection inputs

Periods

Scheme of practical examination

Internal practical examination marks	40
I) Preparation marks	20
II) Identification marks	10
III) Submission of practical record book marks	5
IV) Viva – Voce marks	5

References :

- 1) Reddy S R(2019) Fundamentals of Agronomy Kalyani Publications, Uttar Pradesh
- 2) Tolanur S (2018) Fundamentals of Soil Science IInd Edition , CBS Publishers , New Delhi
- 3) Reddy S R (2017) Principles of Organic Farming Kalyani Publishers , New Delhi
- 4) Dongarjal R.P. and Zade S.B(2019) Insect Ecology and Integrated Pest Management Akinik Publications , New Delhi