

2020

AGRICULTURE
(Theory)

Full Marks : 70

Pass Marks : 21

Time : Three hours

All the questions are compulsory.

The figures in the right margin indicate full marks for the questions.

1. Choose the most appropriate answer from the given options, A, B, C or D.

1×4=4

(i) In which leaves of the plant, the symptoms of nitrogen deficiency first appear ?

(A) Younger leaves

(B) Middle leaves

(C) Older leaves

(D) Not arised

(ii) Which of the following chemicals are allowed in organic farming ?

(A) Muriate of potash

(B) Rock phosphate

(C) Weedicides

(D) Hormones

P.T.O.

(iii) Which of the following has better scope for food processing ?

- (A) Cereals
- (B) Pulses
- (C) Oil seeds
- (D) Fruits

(iv) Which of the following manures has higher nutrient content ?

- (A) Compost
- (B) Vermicompost
- (C) Farm Yard Manure
- (D) Equal

2. Answer very shortly in *one* or *two* sentences :

1×10=10

- (a) What is meant by soil P^H ?
- (b) Define drip irrigation.
- (c) What do you mean by biopesticide ?
- (d) What do you mean by Food processing ?
- (e) Mention two flowers which are commonly used for cut flowers.
- (f) Give two points of difference between jam and jelly.
- (g) What do you mean by avenue garden ?

- (h) Why is packaging considered important ?
- (i) What is meant by royal jelly ?
- (j) Why is black scented rice considered important in organic farming but not the ordinary rice ?

3. Answer the following in short : 2×10=20

- (a) Write the criteria for essential elements as per Arnon.
- (b) Differentiate between soil fertility and productivity.
- (c) Give at least 3 points of difference between manures and fertilizers.
- (d) 'Kitchen garden should be grown organically'. Give your viewpoints.
- (e) Write the post harvest operations required for either mango or field pea or maize.
- (f) How will you harvest and store cut flowers ?
- (g) Write the importance of bee keeping in agriculture.
- (h) Why is biopesticide considered important nowadays ?
- (i) Enlist four processed and value added products of either cereals or pulses which have national recognition ?
- (j) Write about a scheme taken up by India Government for development of organic farming.

4. Write a brief notes on : 3×7=21

- (a) Vermi compost
- (b) Scope of landscape designer as a profession .
- (c) Write the important Govt. schemes for development of post harvest management in food sectors.

- (d) Scope or present status of organic farming in Manipur.
 - (e) Integrated pest management or integrated nutrient management.
 - (f) Role and function of nitrogen, phosphorus and potassium in plant growth.
 - (g) Present status of food processing in india.
5. What do you mean by subsidiary enterprise ? What agriculture or horticultural based enterprise can be taken up in Manipur in success ? Give reasons.

1+1+3=5

Or

How can you develop mushroom farming as an enterprise ? Discuss its pros and cons.

3+2=5

6. Define safe food. What are the regulations to be maintained for food safety ?
7. Mention the principles of food processing and preservation. Describe its benefit in agriculture.

1+4=5

2+3=5