

This question paper contains 4 printed pages]

Code No. : 01(II) Roll No.

0(CCEM)9

AGRICULTURE

Paper : II

Time Allowed : 3 hours]

[Maximum Marks : 300

- Note :*
- (i) Answers must be written in English.*
 - (ii) Number of marks carried by each question are indicated at the end of the question.*
 - (iii) Part/Parts of the same question must be answered together and should not be interposed between answers to other questions.*
 - (iv) The answer to each question or part thereof should begin on a fresh page.*
 - (v) Your answers should be precise and coherent.*
 - (vi) Candidate should attempt Question No. 3 and 4 which are compulsory and any four out of the remaining questions, selecting at least one question from each Section.*

P. T. O.

SECTION - A

1. Will the new high yielding varieties and recent technologies remain confined to only big farmers in India? How do we ensure ^{slow} ~~show~~ movement of seeds of latest varieties through National innovation system? 25 ×

2. Explain problems and prospects of breeding for nutritional quality. Discuss breeding strategy for development of nutritionally superior genotypes. 20 + 3

3. Write short notes on any *five* of the following :

(i) BT Cotton

(ii) Terminator Technology

(iii) Gene flow

(iv) Recurrent Selection

(v) Heterosis

(vi) Synthetic varieties 10 ×

SECTION - B

4. What is Integrated disease management? What are the components of IDM? What are the principles of biocontrol? 15 + 20 + 1

5. What are the vegetables cultivated in Jammu Region of J. K. State ? Write the package of practices for cauliflower cultivation under the following heads ?
- (a) Soil
 - (b) manure/fertilizers
 - (c) Varieties
 - (d) Plant protection measures
 - (e) Harvesting
 - (f) Yield
 - (g) Marketing.
- 20 + 30
6. Write in brief approx. 200 words on any *five* of the following :
- (i) Biological control of Insect pests
 - (ii) IPM of Rice
 - (iii) Impact of Global warming on Pests Status
 - (iv) Emulsifiable concentration (EC)
 - (v) Plasmolysis
 - (vi) Glycolysis.
- 10 × 5
7. What are the major fruits cultivated at different attitudes in J & K State ? Describe the package of practices for getting higher yield of Mango crop.
- 20 + 30

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8. Write in brief (200 words) on any *five* of the following ?

- (i) Precautions required in the harvesting and marketing of grapes.
- (ii) Training and pruning of fruit trees
- (iii) Propagation br. grafting → *bridge*
- (iv) Problems of fruit cultivation
- (v) Status of floriculture in India
- (vi) Persian Gardens.

10 × 5

9. Describe in short on any *five* of the following :

- (i) Floral preservation
- (ii) Protected cultivation
- (iii) Green house technology
- (iv) Cloud seeding
- (v) Weather forecasting
- (vi) Genetically Modified Crops.

10 × 5