

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 seed 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 varieties10 ×

SECTION – B

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

(2)

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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

(3)

P. T. O.

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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 \rightarrow bridge
- (iv) Problems of fruit cultivation
- (v) Status of floriculture in India
- (vi) Persian Gardens.

10 \times 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 \times 5