

No. of Printed Pages : 5

5991 (E)



Register Number

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Part III — Vocational Subjects

AGRICULTURAL SCIENCE

(English Version)

Time Allowed : 3.00 Hours]

[Maximum Marks : 90

- Instructions :** (1) Check the question paper for fairness of printing. If there is any lack of fairness, inform the Hall Supervisor immediately.
- (2) Use **Blue** or **Black** ink to write and underline and pencil to draw diagrams.

PART - I

Note : (i) Answer **all** the questions.

15x1=15

(ii) Choose the correct answer from the given **four** alternatives and write the answer with symbol.

1. These kinds of seeds can be seeded on elevated bed or pitted plate nursery.

- (a) Sunflower (b) Groundnut (c) Tomato (d) Millet

2. The crop which has more phosphoric acid than other crops is :

- (a) Bean (b) Toor (c) Soya bean (d) Black gram

3. The medicinal crop that is used for mutation in crop development research is :

- (a) kanvali tuber (b) aloe (c) vallaarai (d) nila vembu

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4. The bacteria that fixes atmospheric nutrients in the roots is _____.
- (a) Bacillus (b) Azospirillum (c) Rhizobium (d) Acetobacter
5. Choose the incorrect word.
- (a) Sulphur (b) Pyrethrum (c) Vasambu (d) Neem
6. _____ is the supplementary agriculture which is practised in cooperative farms for maximum benefit in minimal land.
- (a) apiculture (b) pisciculture
(c) bird culture (d) mushroom culture
7. _____ is the percentage of purity/unadulteration in expert seeds.
- (a) 98% (b) 99.5% (c) 99% (d) 100%
8. _____ nanometer dimension colloid is used in agriculture.
- (a) 5000 - 7000 (b) 10 - 1000 (c) 7000 - 10,000 (d) 1000 - 10,000
9. The effect of use of additive chemicals is :
- (a) polluting the water resources
(b) polluting the environment
(c) spoiling the fertility of the soil
(d) all of these
10. The number of _____ bees is more than 90% in a bee family.
- (a) worker (b) male (c) queen (d) none of these
11. Fermentation of sugar is obstructed if the amount of sugar in the sugar syrup is more than _____.
- (a) 10% (b) 60% (c) 50% (d) 25%

12. Economic growth can be obtained only if the agriculture produce is _____.
- (a) Marketed (b) Cleaned (c) Preserved (d) Sorted
13. The disease which attacks the nervous system of goat :
- (a) Thullu Maari (b) Ammai Noi (c) Vekkaisarbu (d) Komari
14. Infectious diseases in farm animals generally spread through :
- (a) wind (b) faeces (c) water (d) all of these
15. The data base maintained by the United Nations Organisation is :
- (a) AGMARKNET (b) FAOSTAT (c) OGD (d) NICNET

PART - II

Note : Answer **any ten** questions. Question No. **28** is **Compulsory**. **10x3=30**

16. Explain SWOT.
17. What are the important species in cotton cultivation ?
18. Write the methods of preparation of soil and pruning in the cultivation of jasmine.
19. Write a short note on organic manure and chemical fertilisers.
20. What is residual poison ?
21. Why are 2 varieties, male and female grown in the cultivation of high yielding hybrid variety of lady's-finger ?
22. What are the goals and methods of prosperous agriculture ?

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23. What is modern agriculture ?
24. What are the functions of worker bees ?
25. Write about shelf life of flowers.
26. Write a note on BIS.
27. Explain in detail the precautionary measures for diseases in farm animals.
28. Write a note on pisciculture culture and mushroom culture.

PART - III

Note : Answer **any five** questions. Question No. **35** is **Compulsory**.

5x5=25

29. Write a note on the merits and demerits of dense transplantation.
30. Write a note on fertiliser management in groundnut cultivation.
31. Write on the methods of removal of residual poison.
32. What are the advantages of co-operative farms ?
33. Tabulate the objectives of crop multiplication.
34. What are the advantages and disadvantages of preservation ?
35. What are the usual disease indications in fish ?

PART - IV

Note : Answer the following questions in about 2 pages each.

2x10=20

36. (a) Write about the methods of cultivation of kanvali tuber.

OR

(b) Explain about the production of moringa variety seed.

37. (a) What are the oil seed crops ? Write a note on the production of any one oil seed crop.

OR

(b) Detail the different methods of preserving foods for a long time.

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