

No. of Printed Pages : 4

**4811 (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. Seed size can be measured based on factors such as \_\_\_\_\_.
- (a) Test weight (b) Germination  
(c) Crop Spacing (d) All the above
2. Peanuts belong to \_\_\_\_\_ family.
- (a) Malvaceae (b) Leguminosae  
(c) Pedaliaceae (d) Fabaceae
3. The amount of fertilizer for vigour crop variety in tomatoes is \_\_\_\_\_ k.g. NPK/Hec.
- (a) 100 : 75 : 75 (b) 75 : 100 : 50  
(c) 100 : 150 : 100 (d) 200 : 250 : 250

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4. In neem \_\_\_\_\_ compound inhibits the formation of nitrogen.  
(a) Miliasin (b) Nimbicidin  
(c) Azadiractin (d) None of the above
5. \_\_\_\_\_ destroys only the seeds of the fungus.  
(a) Fungal inhibitor (b) Fungal seed destroyer  
(c) Fungal poison (d) None of these
6. Combining sub-industries related to agri industry is \_\_\_\_\_.  
(a) Integrated crop protection (b) Integrated weed control  
(c) precision farm (d) Integrated farm
7. The source of seed production is \_\_\_\_\_.  
(a) Certified seed (b) Source seed  
(c) Expert seed (d) Embryonic seed
8. The purpose of \_\_\_\_\_ is to fulfill the food, clothing and fuel needs of the world.  
(a) Modern farming (b) Precision farm plan  
(c) Commercial horticulture (d) Commercial farming
9. The method of cultivating the crop using natural products is known as \_\_\_\_\_.  
(a) Modern farming (b) Commercial farming  
(c) Fertile farming (d) Organic farming
10. In \_\_\_\_\_ conditions koi flowers are cultivated.  
(a) Open space, restricted conditions  
(b) Cover, hot bed  
(c) Room cooling, forced air cooling  
(d) None of the above
11. The economic growth can be achieved not only by producing agricultural products, but also by its \_\_\_\_\_.  
(a) Marketing (b) Cleansing  
(c) Processing (d) Seggregation

12. \_\_\_\_\_ provides ecomark index.  
(a) APEDA (b) BIS (c) MPEDA (d) FSSAI
13. Disease affecting the nervous system of goats is \_\_\_\_\_.  
(a) Haemorrhagic septicemia (b) Goat pox  
(c) Peste Des Petits Ruminants (d) Foot and mouth disease
14. Foot and mouth disease is caused by \_\_\_\_\_ type of virus.  
(a) 50 (b) 40 (c) 56 (d) 46
15. \_\_\_\_\_ is required to convert data into information.  
(a) Input (b) Database (c) Sensor (d) Computer

### PART - II

**Note :** Answer **any ten** questions. Answering the question number **28** is **compulsory**. **10x3=30**

16. What is dense planting method ?
17. What is the economic significance of black gram ?
18. How cashews are propagated ?
19. Write down the method of pruning on the jasmine.
20. What are the key components of integrated nutrition management ?
21. How pesticides are classified based on the nature of chemicals ?
22. Define fertile farming.
23. What is organic certification ?
24. What are the species of bees ?
25. What is landscaping ?

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26. Write a short note on BIS.
27. Make a note on some of the databases maintained by the United Nations.
28. Write about the disease caused by low blood sugar in cattle.

**PART - III**

**Note :** Answer **any five** questions. Answering question number **35** is **mandatory**. **5x5=25**

29. Why do we put gypsum in peanuts ?
30. Write about the Gloreosa superba harvest and yield.
31. How can you reduce nutrient depletion through proper water management ?
32. Distinguish between expert seed and source seed.
33. Write about the Tea Board.
34. Describe any five diseases that affect livestock.
35. Write about residual detoxification methods.

**PART - IV**

**Note :** Answer **all** the questions. **2x10=20**

36. (a) What are the ways to increase the production of pulses ?  
**OR**  
(b) Describe the method by which the Gloreosa superba is cultivated.
37. (a) Write about the physical method, biological method in integrated crop protection methods.  
**OR**  
(b) Write an article about the elements of the garden.

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