

**2022**  
**Agriculture (Vocational)**

Total marks : 50

Time : 2 hours

**General instructions :**

- i) *Approximately 15 minutes is allotted to read the question paper and revise the answers.*
- ii) *All questions are compulsory except Q. nos.18 to 23 where general option is given.*
- iii) *The question paper consists of 23 questions.*
- iv) *Marks allocated to every question are indicated against it.*

**N.B:** *Check to ensure that all pages of the question paper are complete as indicated on the top left side.*

**1. Choose the correct answer from the given alternatives: 10x1=10**

- i. The soil for a nursery should preferably be
  - (a) clayey
  - (b) sandy
  - (c) sandy loam
  - (d) black
- ii. Sphagnum moss is commercially used as a rooting medium in
  - (a) air layering
  - (b) budding
  - (c) grafting
  - (d) cutting
- iii. A practice to support plants to grow straight and saving them from bending or lodging is called
  - (a) watering
  - (b) weeding
  - (c) staking
  - (d) shading
- iv. Bryophyllum is propagated by
  - (a) root cutting
  - (b) stem
  - (c) leaf cutting
  - (d) seeds
- v. Inferior or older plants are rejuvenated into superior or new ones by which of the following methods?
  - (a) hardwood cutting
  - (b) approach grafting
  - (c) veneer grafting
  - (d) top working
- vi. Which of the following is a technique, for growing plant tissues isolated from a parent plant in an artificial medium and controlled environment?
  - (a) protected culture
  - (b) soiless culture
  - (c) tissue culture
  - (d) hydroponic
- vii. Soil is injurious to most crops, if EC (milli mohs/cm) is
  - (a) > 2.0
  - (b) > 3.0
  - (c) > 4.0
  - (d) > 5.0
- viii. Pinching in a plant promotes
  - (a) plant height
  - (b) flower size
  - (c) bushy growth
  - (d) root growth
- ix. The word 'communication' comes from a Latin word which means
  - (a) to try
  - (b) to give
  - (c) to take
  - (d) to share

x. Which short cut key is used to create a new document?

- (a) ctrl+c
- (b) ctrl+n
- (c) ctrl+m
- (d) ctrl+d

**Answer the following questions in one word or one sentence:**

- 2. Define soil solarisation. 1
- 3. What is a growing medium? 1
- 4. List any two ingredients required to prepare compost. 1
- 5. Name a plant which is propagated through tuberous root. 1
- 6. What are prime natural components in selection of site? 1
- 7. Define weeding. 1
- 8. Mention one importance of grooming. 1
- 9. What is green economy? 1

**Answer the following questions in 20-50 words:**

- 10. What is floriculture? 2
- 11. Differentiate between temporary and permanent nursery. 2
- 12. What are plant bio regulators? Name one plant bio regulators. 1+1=2
- 13. Differentiate between sexual and asexual methods of plant propagation. 2
- 14. Write any two advantages of grafting. 2
- 15. Differentiate between de-shooting and disbudding. 2
- 16. What is budding? 2
- 17. List two tips for practicing the four steps of effective time management. 2

**Answer any four from the following questions in 60-100 words:**

- 18. List any four precautionary steps taken during seed sowing and planting. 4
- 19. Explain briefly the procedure of air layering. 4
- 20. Explain in brief any four garden tools. 4
- 21. What is soil? Write any three importance of soil. 1+3=4
- 22. Explain in brief the four importance of planning or preparing a business plan. 4
- 23. What is a nursery? Write any three importance of nursery. 1+3=4

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