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Brainware University  
398, Ramkrishnapur Road, Barasat  
Kolkata, West Bengal-700125

## BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – B.Sc.(Ag)-Hons-2024

Course Name – Fundamentals of Horticulture

Course Code - CC-BAG175(T)

( Semester I )

Full Marks : 50

Time : 2:0 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

### Group-A

(Multiple Choice Type Question)

1 x 20=20

1. Choose the correct alternative from the following :

- (i) The word horticulture extended from which language?
  - a) Greek
  - b) Latin
  - c) Latin-Greek
  - d) Arabic
- (ii) Seed coat or the outer part of a seed which protects?
  - a) Fruit
  - b) Embryo
  - c) Endosperm
  - d) Seed
- (iii) In case of hardwood cutting what should be the age of shoot?
  - a) 12 months
  - b) 6 months
  - c) 18 months
  - d) 10 months
- (iv) In this irrigation system the use of water shows more efficiency .
  - a) Drip
  - b) Sprinkler
  - c) Furrow
  - d) Basin
- (v) The primary root becomes dominant, which is called?
  - a) Aerial root
  - b) Prop root
  - c) Taproot
  - d) Pneumatophores
- (vi) What is the Propagating part of onion?
  - a) Runner
  - b) Rhizome
  - c) Bulb
  - d) Tuber
- (vii) Multiplication of plants by seed, which is known as?
  - a) Sexual Propagation
  - b) Asexual Propagation
  - c) Vegetative Propagation
  - d) True to Type Propagation
- (viii) Name the method of asexual reproduction in plants in which callus is produced?
  - a) Regeneration
  - b) Micro Propagation
  - c) Fragmentation
  - d) Sexual Propagation
- (ix) What type of artificial propagation method is used in sugarcane and cactus trees?

- a) cutting  
c) layering
- b) tissue culture  
d) grafting
- (x) what is the attach method of propagation?  
a) harwood cutting  
c) Air layering
- b) t budding  
d) side grafting
- (xi) Select the right option for successful hand pollination  
a) date palm  
c) grape
- b) mango  
d) aonla
- (xii) why Gibberellins can facilitate and has the influence seed germination?  
a) synthesis of abscisic acid  
c) production of hydrolyzing enzymes
- b) rate of cell division  
d) absorption of water through the hard seed coat
- (xiii) Why the seed coat ruptures during the germination of seeds?  
a) massive imbibition of water  
c) a sudden increase in cell division
- b) differentiation of cotyledons  
d) massive glycolysis in cotyledons and endosperm
- (xiv) Seed dormancy which allows a plants to  
a) develop healthy seeds  
c) overcome unfavourable climatic conditions
- b) reduce viability  
d) prevent deterioration of seeds
- (xv) Which of these compounds can induce seed dormancy?  
a) Potassium nitrate  
c) Gibberellins
- b) ABA  
d) Ethylene
- (xvi) what is the germination percentage of cowpea?  
a) 80  
c) 75
- b) 85  
d) 70
- (xvii) what is the standard germination temperature for potato (in degree centigrade)?  
a) 25  
c) 35
- b) 30  
d) 16
- (xviii) what is germination inhibitor present in tomato?  
a) fulvic acid  
c) felusic acid
- b) ferulic acid  
d) feluric acid
- (xix) induced dormancy present in which crop seed?  
a) Brassica nigra  
c) Brassica napus
- b) Avena fatua  
d) Brassica campestris
- (xx) which type of dormancy is genetical?  
a) innante dormancy  
c) induced dormancy
- b) enforced dormancy  
d) artificial dormancy

### Group-B

(Short Answer Type Questions)

2.5 x  
10=25

2. Demonstrate the importance of horticulture (2.5)
3. Demonstrate the scope of horticulture (2.5)
4. what are the types of propagation? (2.5)
5. What will be the importance of seed dormancy? (2.5)
6. What will be the external factor of seed germination? (2.5)
7. What is viviparous germination? (2.5)
8. Demonstrate the different parts of sprinkler system (only the names) (2.5)
9. Explain briefly what is pruning? (2.5)
10. Determine the spice crops on the basis of completion of life cycle. (2.5)

11. Briefly explain what is aromatic plants? (2.5)

OR

Propose different functions of cytokinin (only points). (2.5)

**Group-C**

(Long Answer Type Questions)

5 x 1=5

12. Discuss the role of auxin (5)

OR

Discuss the role of ethylene (5)

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