



BRAINWARE UNIVERSITY

Term End Examination 2023-2024

Programme – B.Sc.(Ag)-Hons-2022

Course Name – Principles of Seed Technology

Course Code - CC-BAG475(T)

(Semester IV)

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) Who is the father of Indian seed technology?
 - a) G.J. Mendel
 - b) F. Nobbe
 - c) B. Barwale
 - d) Jethro tull
- (ii) Select the amount of moisture present in cereal crops?
 - a) 7%
 - b) 5%
 - c) 9%
 - d) 10-12%
- (iii) Find out the right option: Genetic purity percentage for foundation seed in Indian Seed Act.
 - a) 99
 - b) 99.5
 - c) 100
 - d) 98
- (iv) Which of the following is not an endospermic seed?
 - a) Gram
 - b) Rice
 - c) Maize
 - d) Castor
- (v) Identify the place for headquarter of National Seed Corporation.
 - a) New delhi
 - b) Mumbai
 - c) Kolkata
 - d) Bangalore
- (vi) Identify the colour used for Foundation seed tag.
 - a) Green
 - b) White
 - c) Yellow
 - d) Blue
- (vii) What is the objective of Grow out Test?
 - a) To determine the Genetic purity
 - b) To determine the physical purity
 - c) To determine the seed health
 - d) None of these
- (viii) Choose the correct option: Example of a recalcitrant seed.
 - a) Rice
 - b) Wheat
 - c) Mango
 - d) Mustard
- (ix) Identify the year when Seed Act was enacted in India.

- a) 1979
c) 1963
- b) 1966
d) 1968
- (x) Scar on seed coat is identified as
a) Funiculus
c) Ridge
- b) Raphe
d) Hilum
- (xi) Find out the isolation distance (m) for rice seed production.
a) 10
c) 15
- b) 3
d) 5
- (xii) Choose the correct option: isolation distance (m) for certified maize seed is:
a) 100
c) 200
- b) 300
d) 50
- (xiii) Development of embryo without fertilization is identified as:
a) Parthenocarpy
c) Ambiphilian
- b) Apomixis
d) None of these
- (xiv) Choose the correct option: TZ test colour of living tissues of seed identified as
a) Blue
c) White
- b) Green
d) Red
- (xv) For Seed viability test (TZ test) the colour of the solution is identified as
a) Red
c) Blue
- b) Colourless
d) Green
- (xvi) National Nematode collection of India is located at which place?
a) Kolkata
c) New delhi
- b) Lucknow
d) Chennai
- (xvii) The most accurate method of seed moisture is utilized by
a) Sun drying
c) Oven method
- b) Shade drying
d) All of these
- (xviii) First phase of processing is named as
a) cleaning
c) seede treatment
- b) Conditioning and drying
d) storage
- (xix) Select the appropriate option: Mode of pollination in maize
a) Self-pollination
c) Often cross pollination
- b) Cross pollination
d) None of these
- (xx) Select appropriate option, name of the author for the book on Principles of seed tech.
a) R.N. basu
c) P.K. agarwal
- b) R.L agarwal
d) G.N. kulkarni

Group-B

(Short Answer Type Questions)

2.5 x
10=25

2. Define seed in both biological and technological point of view. (2.5)
 3. Explain the characteristics of good quality of seed. (2.5)
 4. Outline the importance of good quality seed. (2.5)
 5. Identify the term: cob sorting. (2.5)
 6. Extend the term: ICAR, NSC, ODV (2.5)
 7. Choose the scientific name, family and chromosome number of paddy (2.5)
 8. Discuss about scientific name, family and chromosome number of sorghum (2.5)
 9. Discuss about scientific name, family and chromosome number of pearl millet (2.5)
 10. Define truthfully labeled seed. (2.5)
 11. Choose the scientific name, family and chromosome number of chick pea (2.5)
- OR**
- Choose the scientific name, family and chromosome number of mustard (2.5)

Group-C
(Long Answer Type Questions)

5 x 1=5

12. Discuss the seed production for paddy. (Transplanted field)

(5)

OR

Elaborate the seed production of wheat.

(5)
