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

**Term End Examination 2024-2025**

**Programme – B.Sc.(Ag)-Hons-2021/B.Sc.(Ag)-Hons-2023**

**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)

$$1 \times 20 = 20$$

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 right option: The amount of moisture present in cereal crops during storage is:
  - 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) 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
- (v) Identify the term: Dockage.
  - a) Purity percentage of seed
  - b) Impurity percentage of seed
  - c) Both 1 & 2
  - d) None of these
- (vi) Choose the correct option: Example of a recalcitrant seed.
  - a) Rice
  - b) Wheat
  - c) Mango
  - d) Mustard
- (vii) Choose the correct option: Scar on seed coat is identified as:
  - a) Funiculus
  - b) Raphe
  - c) Ridge
  - d) Hilum
- (viii) Which of the following has thick seed coat?
  - a) Mango
  - b) Peanut

- c) Coconut d) Pear
- (ix) Choose the correct option: For Seed viability test (TZ test) the colour of the solution is identified as:
- a) Red b) Colourless  
c) Blue d) Green
- (x) Choose the correct option: Maximum moisture content in rice seed for safe storage.
- a) 10% b) 9%  
c) 12% d) 15%
- (xi) Identify the type of crops where slow drying seed is utilized.
- a) cereals b) pulses  
c) Oilseeds d) Fodder
- (xii) Show the correct option: Inflorescence of sunflower is related with:
- a) catkin b) Cob  
c) Capitulum d) Bulb
- (xiii) Choose the correct option: International Seed Testing Association (ISTA) was founded in which year?
- a) 1890 b) 1924  
c) 1934 d) 1974
- (xiv) The most accurate method of seed moisture is utilized by:
- a) Sun drying b) Shade drying  
c) Oven method d) All of these
- (xv) Who developed the thumb rule for safe seed storage?
- a) Thompson b) JF Harrington  
c) F. Nobbe d) Justice
- (xvi) Where CSTL is located ?
- a) Bangalore b) Hyderabad  
c) Nagpur d) Varanasi
- (xvii) Identify the place for headquarter of OECD.
- a) India b) Australia  
c) Germany d) Paris
- (xviii) First GM crop in India : Choose the right option
- a) Bt Cotton b) Brinjal  
c) Tomato d) Potato
- (xix) When the Seed control order was enlisted?
- a) 2004 b) 1983  
c) 1973 d) 1993
- (xx) PPVFRA enacted in which year?
- a) 1985 b) 2001  
c) 2003 d) 2004

**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. Identify the term: cob sorting. (2.5)
5. Extend the following term: ICAR, NSC, ODV. (2.5)
6. Choose the scientific name, family and chromosome number of mustard. (2.5)
7. Discuss about scientific name, family and chromosome number of sunflower. (2.5)
8. Choose the scientific name, family and chromosome number of tomato. (2.5)
9. Identify the pollination behaviour, fertilizer dose, yield of paddy crop. (2.5)

10. Identify the duties of a seed inspector. (2.5)  
11. Discuss about scientific name, family and chromosome number of wheat. (2.5)  
OR  
Discuss about scientific name, family and chromosome number of maize. (2.5)

**Group-C**  
(Long Answer Type Questions)

5 x 1=5

12. Discuss about tomato seed extraction method. (5)  
OR  
Explain the reason for deterioration of crops in terms of purity. (5)

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