

**(FOR THE CANDIDATES ADMITTED  
DURING THE ACADEMIC YEAR 2022 ONLY)**

**REG.NO. :**

22UBY6E9

# **B.Sc.-BOTANY**

## **SEMESTER :VI**

**MAXIMUM MARKS: 50**  
**TIME : 3 HOURS**

## **PART - III**

# **SEED TECHNOLOGY**

## **SECTION - A**

**(10 X 1 = 10 MARKS)**

## **ANSWER THE FOLLOWING QUESTIONS.**

## MULTIPLE CHOICE QUESTIONS.

(K1)

1. Who is the father of Indian seed technology?  
a) John Hendry      b) Badrinarayan Barwale      c) Fredrick Griffith      d) William G Kaelin
2. Which of the following shows double fertilization?  
a) Angiosperms      b) Gymnosperms      c) Algae      d) All of the above
3. What is the protective covering over radical during the germination of seeds?  
a) Coleoptile      b) Epithelium      c) Suspensor      d) Coleorhiza
4. Which of the following method is used to check varietal purity?  
a) Germination test      b) Grow out test      c) Viability test      d) Vigour test
5. When was the Seed act in India was enacted?  
a) 1964      b) 1966      c) 1967      d) 1956

**ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES**

(K2)

6. What is called foundation seed?
7. What is called Seed Farm management?
8. What is the formula for seed Vigour?
9. What is the colour tag of certified seed? Azure blue
10. What is called radicle?

**SECTION – B** **(5 X 3 = 15 MARKS)**

**ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)**

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS

11. a) What are the different ways to identify the seeds?  
(OR)  
b) List out the differences between seed and grain.

12. a) Explain the process of seed fertilization.  
(OR)  
b) Describe the different stages of seed maturation.

13. a) Discuss the principles and importance of heterogeneity.  
(OR)  
b) Write a short note on seed purity test.

(CONTD.....2)

14. a) Describe the seed processing methods.  
**(OR)**  
b) Explain the mechanical method of seed drying.

15. a) Discuss the general certification standards.  
**(OR)**  
b) Describe the Seed act with suitable example.

**SECTION - C****(5X 5 = 25 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K4 & K5)**

16. a) Explain the development of Indian seed industry.  
**(OR)**  
b) Role of National Seed Corporation.

17. a) Explain the Seed farm management.  
**(OR)**  
b) Explain the process involved in the seed formation.

18. a) Describe the seed germination test.  
**(OR)**  
b) Explain the procedure involved in the seed moisture test.

19. a) Discuss the various factors affecting the seed storage.  
**(OR)**  
b) Explain the best strategies of seed marketing.

20. a) Discuss the Essential commodity act.  
**(OR)**  
b) Explain the function of seed certification agency.

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