

20. (a) Write a short notes on IPR.

Or

- (b) Give an account on UPOV Convention.

SECTION C — ($3 \times 10 = 30$)

Answer any THREE questions.

21. Give a detailed account on scope and a nature of Pharmacology.
22. Explain in detail about Vegetative Propagation method.
23. Explain in detail about the methods advantage and disadvantage of Micropropagation.
24. Give a brief account on Developing pest resistance Species.
25. Give a detailed account on farmer rights and UPOV Convention.
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S.No. 6144

P 22 BTNME 1

(For candidates admitted from 2022–2023 onwards)

P.G. DEGREE EXAMINATION, NOVEMBER 2023.

Bio Technology – Non Major Elective

AGRICULTURAL BIOTECHNOLOGY

Time : Three hours

Maximum : 75 marks

SECTION A — (20 Marks)

Answer ALL questions.

- I. (A) Multiple choice questions : ($5 \times 1 = 5$)
1. Removal of male bud in banana in technically know as?
- (a) Tipping (b) Disbudding
(c) Threshing (d) Denavelling
2. Rooting in stem cutting are stimulated by using
- (a) Jasmonic acid (b) ABA
(c) Ethylene (d) IAA
3. The transgenic plant is developed by anti sense RNA technology
- (a) Golden rice
(b) Bt Cotton
(c) Flavr Savr Tomato
(d) Both (a) and (b)

4. A transgenic Crop that is resistant to horn worm larvae is

- (a) Sugar cane (b) Sunflower
(c) Tomato (d) Tobacco

5. AGM crop is

- (a) Mature crop
(b) Infected crop
(c) Raised to green manure
(d) Transgenic crop

(B) Fill in the blanks : (5 × 1 = 5)

6. Highest water use efficiency is observed in _____

7. Grafting is a method of _____

8. Transgenic Brassica Napus has been used for the synthesis of _____

9. Third generation pesticides are _____

10. Patent act was passed in the year _____

II. Answer ALL questions : (5 × 2 = 10)

11. Define Pharmacokinetics.

12. What is clonal Selection?

13. Define haploid Production.

14. What is Pest resistance?

15. Define IPR.

SECTION B — (5 × 5 = 25)

Answer ALL the questions, choosing either (a) or (b).

16. (a) Explain the membrane transport in Pharmacokinetics.

Or

(b) Give an account on Enzyme inhibition.

17. (a) Give a short notes on clonal selection.

Or

(b) Explain about Grafting.

18. (a) Write a brief note on Micropropagation.

Or

(b) Explain about Para sexual hybridization.

19. (a) Write a short notes on Integrated Pest Management.

Or

(b) Explain about Pest resistance.