

**3 (Sem-5) BOT M 4**

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( Held in 2021 )

**BOTANY**

( Major )

Paper : 5.4

( **Applied Botany** )

*Full Marks : 42*

*Time : 2 hours*

*The figures in the margin indicate full marks  
for the questions*

**GROUP—A**

( *Marks : 21* )

**1. Answer the following questions :** **1×2=2**

(a) Name the microbe which is responsible for the production of commercial penicillin.

(b) In which year was the first genetically modified crop introduced in India?

2. Answer the following questions : 2×2=4

(a) Write the names of two allergens.

(b) What do you mean by Serology?

3. Answer any *three* of the following questions :

5×3=15

(a) What is polyploidy? How does it work in plants?

(b) Write a note on algae as food.

(c) Elucidate the importance of bacteria in bioremediation.

(d) Write a note on positive impacts of breeding in crop.

(e) Is mutation a natural phenomenon? Justify your answer.

GROUP—B

( Marks : 21 )

4. Answer any *three* questions of the following :

7×3=21

(a) A farmer saw an algal mass in his field and ignored. What will happen to that field?

- (b) How does 'induced mutation' help in improving of agriculture in Assam in last two decades?
- (c) How does vegetation propagation help in commercial horticulture in your country?
- (d) Why is the enhancement of commercial production of ethyl alcohol required in the present situation?
- (e) An enthusiastic traveller could not find a single patch of lichen in a small town and refused to roam around. Why does he repark?

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