

2016

BOTANY

(Major)

Paper : 5.4

(Applied Botany)

Full Marks : 60

Time : 3 hours

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

1. Answer the following : 1×7=7
- (a) IAA was first isolated from _____.
 - (b) Yeast cells are the best sources of _____.
 - (c) Azotobacter is a _____ nitrogen fixing bacteria.
 - (d) Plant diseases which occur throughout the globe is called _____.
 - (e) _____ is the most suitable for virus-free plants for micropropagation.
 - (f) Agar-agar is extracted from _____.
 - (g) IPCC stands for _____.

2. Write brief notes on the following : $2 \times 4 = 8$

- (a) Pure line selection
- (b) Bonsai
- (c) Allergens
- (d) BGA

3. Write notes on any *three* of the following : $5 \times 3 = 15$

- (a) Importance of phytoremediation
- (b) Need of grafting in horticulture
- (c) Lichen as pollution indicator
- (d) Algae as fish feed
- (e) Importance of PGPRS

4. Answer any *three* of the following : $10 \times 3 = 30$

- (a) Give an account on the role of algae in agriculture.
- (b) What is mycorrhiza? Elucidate its role in plant growth and development.
- (c) What is India's contribution in global climate change concept?
- (d) Write an essay on the application of synthetic regulators in agriculture.
- (e) Write a note on the recent initiatives of crop improvement undertaken by ICAR.

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