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Nov-2015



कांजी - 023

BOTANY PAPER - II : BOT- 242
Applied Botany
(24146)

P. Pages : 2

Time : Two Hours

Max. Marks : 40

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Graph or diagram should be drawn with the black ink pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. All questions are compulsory.
5. Figures to the right indicate full marks.
6. Draw neat and labelled diagrams whenever necessary.

1. Attempt any eight.

8

- i) Azofertilizers are those fertilizers which contain active strain of
 - a) Rhizobium
 - b) Azospirillum
 - c) Azotobacter
 - d) Pseudomonas
- ii) The branch of Botany which deals with criminal investigation is called
 - a) Horticulture
 - b) Floriculture
 - c) Agriculture
 - d) Forensic Botany
- iii) 'Spawn' is a pure inoculum of
 - a) Blue green algae
 - b) Yeast
 - c) Mushroom
 - d) Mycorrhiza
- iv) Abrin is a highly toxic protein present in the seeds of
 - a) Cannabis sativa
 - b) Jatropha curcas
 - c) Datura metel
 - d) Abrus precatorius
- v) Gram dal is adulterated with
 - a) Turdal
 - b) Black gram
 - c) Kesari dal
 - d) None of these
- vi) What is explant ?

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P.T.O

vii) Give the types of fermentation.

viii) Define Adulteration.

ix) What is compost ?

x) Define 'Totipotency'.

2. Solve **any four**.

8

a) Define Applied Botany.

b) What is plant tissue culture ?

c) Define Biofertilizer.

d) Explain incubation.

e) Enlist types of organic manures.

f) What is 'inoculation' ?

3. Attempt **any two**.

8

a) Give the importance of organic manures.

b) Describe the methods of application of Rhizobium culture in agriculture.

c) Write a method of cultivation of pleurotus.

4. a) Solve **any two**.

6

i) Give the roles of Datura Metal (Datura) in forensic Botany.

ii) Give the flow-sheet of Ethyl alcohol production.

iii) Describe nutritional value of mushroom.

b) Enlist adulterants in black pepper.

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5. a) Mention the application of tissue culture in Agriculture and Horticulture.

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OR

b) Describe method of mass cultivation of B.G.A. and give importance of B.G.A. in Agriculture.
