

April 2014

Seat  
No.

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कण - 044

**BOTANY PAPER - II : BOT - 242**

**Applied Botany**

**(New) (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. Answersheet should be written with blue ink only. Graph or diagram should be drawn with the same 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 well labeled diagrams wherever necessary.

1. Solve any eight.

8

a) Aerobic fermentation occurs in presence of .....

- |            |            |
|------------|------------|
| i) $O_2$   | ii) $CO_2$ |
| iii) $N_2$ | iv) $H_2$  |

b) Dhingri Mushroom is a species of .....

- |                       |                        |
|-----------------------|------------------------|
| i) <u>Agaricus</u>    | ii) <u>Volvariella</u> |
| iii) <u>Pleurotus</u> | iv) <u>Morchella</u>   |

c) ..... is an organic manure.

- |                     |                  |
|---------------------|------------------|
| i) Coropast         | ii) Urea         |
| iii) Superphosphate | iv) All of these |

d) ..... is known as 'father of tissue culture'.

- |               |            |
|---------------|------------|
| i) Haberlandt | ii) White  |
| iii) Skoog    | iv) Miller |

e) BGA are members of .....

- |                   |                    |
|-------------------|--------------------|
| i) Ascomycetes    | ii) Chlorophyceae  |
| iii) Cyanophyceae | iv) Basidiomycetes |

f) Botanical name of Datura is .....

- |                             |                              |
|-----------------------------|------------------------------|
| i) <u>Jatropha curcus</u>   | ii) <u>Argemone mexicana</u> |
| iii) <u>Cannabis sativa</u> | iv) none of these            |

g) Give any two possible adulterants in tea.

- h) Define applied botany.
- i) Give sources of antibiotic penicillin.
- j) Define adulterant.

2. Solve **any four**.

8

- a) Give substrates for ethanol fermentation.
- b) Enlist edible mushrooms.
- c) Define totipotency.
- d) Explain types of fermentation.
- e) Define farm yard manure.
- f) What is biofertilizer.

3. Solve **any two**.

8

- a) Comment on nutritional values of mushrooms.
- b) Explain organogenesis in plant tissue culture.
- c) Give possible adulterants and method for detection of adulteration in Ground nut oil.

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

6

- i) Describe surface sterilization of explant.
- ii) Explain preparation of substrate for penicillin fermentation.
- iii) Explain spawn making.

b) Give hazardous effect of adulteration in Gram.

2

5. Explain mass production of Rhizobium.

8

OR

What is forensic botany ? Explain role of Cannabis Sativa in forensic botany.

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