

Seat Number

337593

April 2015



खडक - 044

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

P. Pages : 3

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 well labeled diagrams wherever necessary.

1. Attempt any eight.

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- a) Biofertilizers convert nitrogen in to .....
  - i) Amino acids
  - ii) Ammonia
  - iii) Nitrites
  - iv) Nitrogenase
- b) From following which is the organic manure.
  - i) Compost
  - ii) Farm yard manure
  - iii) Green manure
  - iv) All above
- c) Botanical name of button mushroom is.....
  - i) Agaricus bisporus
  - ii) Agaricus campestris
  - iii) Pleurotus Sojar - Caju
  - iv) Ammanita arvensis
- d) Yeast belongs to genus.....
  - i) Streptomyces
  - ii) Aspergillus
  - iii) Saccharomyces
  - iv) Penicillium

- e) Common moulds involved in fermentation.
- |                        |                        |
|------------------------|------------------------|
| i) <u>Penicillium</u>  | ii) <u>Aspergillus</u> |
| iii) <u>Gibbarella</u> | iv) All of them        |
- f) Which is the part of Abrus plant used for poisoning ?
- |             |           |
|-------------|-----------|
| i) Root     | ii) Stem  |
| iii) Leaves | iv) Seeds |
- g) Father of tissue culture is known as.....
- |               |             |
|---------------|-------------|
| i) Haberlandt | ii) Schwann |
| iii) Skoog    | iv) Kuchko  |
- h) One of the following is not biofertilizer.
- |                        |                        |
|------------------------|------------------------|
| i) <u>Azospirillum</u> | ii) <u>Azotobacter</u> |
| iii) <u>Nostoc</u>     | iv) <u>Clostridium</u> |

i) Define inoculation.

j) What is callus ?

2. Attempt **any four**.

8

- i) Give any two applications of tissue culture in agriculture.
- ii) Give possible adulterants in turmeric.
- iii) Give any two uses of ethanol.
- iv) Give symptoms of lathyrism.
- v) What do you mean by totipotency ?
- vi) What is fermentation ?

3. Write **any two**.

8

- i) Write a note on hardening in brief.
- ii) Give process of isolation of Rhizobium from root nodules.



iii) Give flow sheet of production of penicillin.

4. a) Attempt **any two**.

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i) Give scope and importance of forensic botany.

ii) Explain process of spawning in *Agaricus*.

iii) Describe the process of fermentation in ethanol production.

b) What is adulteration ?

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5. Explain the process of mass production of BGA and its applications in agriculture.

8

OR

Give detail process of Pleurotus cultivation.

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