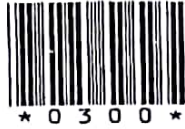


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BOTANY PAPER-II : BOT-242

Applied Botany

(24146) / 21422

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 & labelled diagrams wherever necessary.

1. Attempt any eight.

8

- i) In ethanol fermentation following organism is involved.

a) <u>Aspergillus</u>	b) <u>Penicillium</u>
c) Yeast	d) <u>Rhizopus</u>
- ii) Coffee is obtained from -----

a) Root	b) Stem
c) Leaves	d) Seeds
- iii) Rhizobium biofertilizer is a type of ----- biofertilizer.

a) Bacterial	b) Algal
c) Fungal	d) All above
- iv) Agaricus belongs to -----

a) Ascomycetes	b) Basidiomycetes
c) Phycomycetes	d) Deuteromycetes
- v) Define adulteration.
- vi) In plant tissue culture ----- medium is used.

a) M.S.	b) YEMA
c) De's	d) Chu's
- vii) Charash or Bhang is obtained from -----

a) <u>Jatropha Curcas</u>	b) <u>Cannabis Sativa</u>
c) <u>Datura metal</u>	d) <u>Abrus Precatorius</u>

- viii) Give any two branches of applied botany.
- ix) Biofertilizers convert nitrogen into -----.
- | | |
|-------------|----------------|
| a) Nitrites | b) Amino acids |
| c) Amonia | d) Nitrogenase |
- x) ----- is known as father of plant tissue culture.
- | | |
|-----------|---------------|
| a) Skoog | b) Haberlandt |
| c) Kuchko | d) Schwann |

2. Attempt any four.

8

- Define unaerobic fermentation.
- Give possible adulterants in groundnut oil.
- Comment on non edible mushroom.
- Enlist the microbes used in fermentation.
- What is spawn?
- What is FYM?

3. Write any two.

8

- Give the how sheet of penicillin production.
- Describe any two types of organic manures.
- Briefly write the process of Pleurotus cultivation.

4. a) Attempt any two.

6

- Give the application of plant tissue culture in medicine.
- Explain the process of detection of adulteration in Bajra.
- Describe the role of Argemone Mexicana.
(yellow poppy in forensic botany).

b) What is explant?

2

5. What is Rhiso-fertilizers? Describe the method of isolation of Rhizobium from root nodules of leguminous plant.

8

OR

What is spawn? Describe the method of spawn making.
