Oct-2014

कदंब - 062

Seat Number

* 0 5 0 4 *

# 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. Answer sheet 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 & well labelled diagrams wherever necessary.

**1.** Solve **any eight.** **8**

a) For culture of Rhizobium _____ medium is commonly used.
   i) De's ii) YEMA
   iii) MS iv) None of these

b) Complete elimination of microorganisms is called as _____.
   i) Inoculum ii) Callus
   iii) Incubation iv) sterilization

c) _____ is a pure inoculum used as a seed of mushroom.
   i) Substrate ii) Spawn
   iii) Casing iv) Compost

d) Saccharomyces used in ethanol fermentation is _____.
   i) Bryophyte ii) Algae
   iii) Bacteria iv) Fungus

e) FYM is a _____.
   i) Algal fertilizer ii) Bacterial fertilizer
   iii) Synthetic fertilizer iv) Organic manure

f) What is adulterant?

g) Define Applied Botany.

h) What is forensic botany?

i) Define fermentation.

j) What is callus?

2. Solve **any four.** 8
   a) Define incubation.
   b) Define compost.
   c) Enlist possible adulterants in Bajara.
   d) Give medicinal uses of mushroom.
   e) What is green manure?
   f) Give substrate for Penicillin fermentation.

3. Solve **any two.** 8
   a) Explain any one method for mass cultivation of BGA.
   b) Explain role of Jatropha curcas in forensic botany.
   c) Give the composition of MS medium used in plant tissue culture.

4. a) Solve **any two.** 6
      i) Enlist important edible species of mushroom.
      ii) Explain hardening in plant tissue culture.
      iii) Give importance of forensic botany.
   b) Enlist types of biofertilizers. 2

5. Explain standard characteristics, possible adulterants and methods for detection of adulteration in Gram. 8

**OR**

Explain pure culture, substrate and fermentation in production of ethanol.

**********