

Anekant Education Society's

**TULJARAM CHATURCHAND COLLEGE OF ARTS, SCIENCE AND
COMMERCE, BARAMATI, DIST – PUNE- 413 102**

AUTONOMOUS

Question Bank, F.Y. B. Sc.

Semester- I, Paper- II: BOT 1102

APPLICATIONS OF BOTANY

Q.1) Answer in one sentence

1. Define Industrial Botany
2. Enlist any two food resources of plant origin
3. What is fodder?
4. Mention any two important fodder plants
5. Enlist any two names of plants producing dyes of commercial importance
6. Mention any two fiber yielding plants
7. Enlist any two gum yielding plants
8. What is floriculture?
9. Write a botanical name and family of Tuberose
10. Give any four advantages of greenhouse technology
11. Define greenhouse
12. Define nursery
13. Enlist any four plants of forest nursery
14. Mention any four method of natural vegetative propagation
15. Define budding
16. What is plant tissue culture?
17. What is callus?
18. What is hardening?
19. Enlist any four food industries in India
20. Give any four advantage of organic farming.
21. What are mushrooms?

22. Mention any two uses of mushroom
23. What is spawn?
24. Define stock and scion
25. Enlist any four food industries
26. Give value added product of mushroom
27. What is ginning?
28. Enlist method of vegetative propagation
29. Draw a neat labeled diagram of dicot seed
30. Any two value added product of mushroom
31. Define horticulture
32. What is sterilization?
33. What is organic farming?

Q.2) Short notes

1. Advantage and limitation of greenhouse technology
2. Air layering
3. 'T' budding
4. Runners and suckers
5. Bulbs and tubers
6. Define hardening
7. Application of plant tissue culture
8. Cutting
9. Nutritional value of mushroom
10. Organic farming
11. Advantage and disadvantage of organic farming
12. Greenhouse effect and technology
13. Mushroom cultivation
14. Seed germination
15. Commercial application of nursery
16. Substrate for mushroom cultivation
17. Resources of medicinal industry

18. Soil, climate and propagation of tuberose cultivation
19. Ornamental nursery
20. Structure of dicot seed
21. Green manure
22. Inoculation and Incubation
23. Media for tissue culture
24. Sterilization

Q.3 Short answer question

1. Comment on approach grafting
2. Explain steps in budding
3. Comment on resources of gum and fiber industry
4. Write any four natural vegetative propagation
5. Commercial significance of mushroom
6. Why greenhouse plant give more yield than open cultivation practices?
7. Enlist any four edible mushroom with botanical name
8. Explain different step in plant tissue culture
9. Explain cultivation and harvesting of tuberose
10. Comment on nutritional value of mushroom
11. Structure on monocot seed
12. Comment on Ginning
13. Write a note on spawn production
14. Write any ten uses of mushroom
15. What is industrial botany? Give any two major plant resources of food, fodder and timber industry?
16. Write the step involved in cotton seed processing
17. Write the step involved in mushroom production
18. Give the difference between monocot and dicot

Q.4) Long answer question

1. What is spawn? Describe spawn production
2. Define organic farming. Briefly write on type of organic fertilizer
3. Comment of cotton seed processing
4. What is plant tissue culture? add note on media preparation and methods of sterilization
5. Describe any two artificial method of vegetative propagation
6. Describe the types of nurseries
7. What is green house? Add note on principle and advantages of greenhouse technology
8. Commercial cultivation of Gerbera in green house
9. Enlist any four value added product of mushroom. Add a note on uses of mushroom

Q.4 Objective:

1. Mapro is famous for it'sproducts
 - a) Herbal
 - b) Strawberry
 - c) Seed
 - d) None of above
2. Agave is used for
 - a) Timber
 - b) Fiber
 - c) Dye
 - d) All of these
3. Following is source of dye
 - a) *Turmeric*
 - b) *Indigophera*
 - c) Both a and b
 - d) None of these
4. Tannin is used for
 - a) Leather
 - b) Drug industry
 - c) Food industry

- d) Medicine industry
5. *Triphala churna* is mixture of
- a) Hirda and behda and turmeric
 - b) Hirda ,adulsa ,mango
 - c) Aloe- vera, amala ,neem
 - d) Hirda, behda ,Amala
6. Plant used in food industry
- a) *Acacia arabica*
 - b) *Adathoda vasica*
 - c) *Tectoma grandis*
 - d) None of above
7. Carbon dioxide concentration in atmosphere is ppm
- a) 1500 ppm
 - b) 300 ppm
 - c) 700 ppm
 - d) 1000 ppm
8. Floriculture is branch of
- a) Silviculture
 - b) Horticulture
 - c) Both a and b
 - d) None of the above
9. Photosynthetically active solar radiation in the range of wavelength
- a) 800-1000 nm
 - b) 200-400nm
 - c) 400 – 700nm
 - d) None of above
10. Tuberose is propagated by
- a) Stem
 - b) Leaf
 - c) Bulb
 - d) Tuber

11. Plant propagation involves

- a) Sexual propagation
- b) Vegetative propagation
- c) Micropropagation
- d) All of above

12. *Chysothemum* propagates by

- a) Suckers
- b) Bulbs
- c) Tubers
- d) Corms

13. Following is the example of rhizome

- a) Potato
- b) Onion
- c) *Pistia*
- d) Zinger

14. Artificial vegetative propagation by.....

- a) Air layering
- b) Grafting
- c) Budding
- d) All of these

15. Glassware's are sterilized by autoclaving attemperature forminutes

- a) 100 °C , for 10 minutes
- b) 121 °C, for 20 minutes
- c) 70 °C, for 5 minutes
- d) 60 °C, for 20 minutes

16.is ability ability of plant cells to regenerate into entire plants

- a) Incubation
- b) Inoculation
- c) Totipotency
- d) Callus

17.is most common medium used for plant tissue culture

- a) MS media
- b) LB media
- c) NA media
- d) PDA media

18. Surface sterilization of plants is done by

- a) NaCl
- b) HgCl₂
- c) MgCl₂
- d) CaCl₂

19. Totipotency of plant cells predicted by

- a) Darwin
- b) Einstein
- c) Haberlandt
- d) Hawking

20. Ginning is separation of

- a) Cotton fibers
- b) Cotton leave's
- c) Cotton seeds
- d) All of these

21. Mushroom is a member of groups

- a) Pteridophytes
- b) Algae
- c) Fungi
- d) Bryophytes

22. Spawn is commonly known as

- a) Monocots seeds
- b) Dicots seeds
- c) Mushrooms Seeds
- d) Both a and b

23. Fodder industry depends on fodder crops like

- a) *Medicago sativa*
- b) *Adhatoda vasica*
- c) Only a
- d) Both a and b