K.T.S.P. Mandal's
Hutatma Rajguru Mahavidyalaya, Rajgurunagar
Department of Botany
FY BSc. Question bank
Applied aspects of Plant Sciences BO-101T Sem I

One mark questions

1. What is genetic engineering?
2. What is GMO?
3. What is CRISPR CAS 9?
4. What is biopharmaceuticlas?
5. Enlist two plants used as biopharmaceuticals.
6. What is abiotic stress?
7. What is biotic stress?
8. What is precision agriculture?
9. What is drone?
10. What is GIS?
11. Define sustainable agriculture.
12. What is organic farming?
13. Enlist types of organic farming?
14. What is plant microbe interaction?
15. What is vertical farming?
16. Define Ecology.
17. Define plant ecology.
18. Define phytoremediation.
19. What is IPM?
20. What is biodiversity?
21. What is conservation of biodiversity?

Write is short note /Short answer questions (4 Marks)/2.5 Marks

1. Describe importance of advanced plant sciences.
2. Explain scope of applied plant sciences.
3. Describe biopharmaceuticals and plant derived drugs.
4. Write application of biotechnology in biotic stress tolerance.
5. Write applocation of biotechnology in abiotic stress tolerance.
6. Write use of remote sensing in agriculture.
7. Give applications of GIS in agriculture.
8. Write use of drone in agriculture.
9. Describe principle of organic farming.
10. Describe various methods of organic farming.
11. Write benefits of organic farming.
12. Write applications of beneficial microbes in agriculture.
13. Explain any two PGPR.
14. Explain AM fungi.
15. Explain role of Rhizpobia in agriculture.
16. Write importance of climate change on crops.

17. Explain mitigating strategies for climate change.
18. Write short note on vertical farming.
19. Describe types of vertical gardening.
20. Write a short note on landscaping.
21. Write applications of urban gardening.
22. Write short note phytoremediation.
23. Write short note on biodiversity.
24. Write limitations of post harvest technology
25. Write importance of post harvest technology.

Long answer questions (6 Marks)

1. Describe transgenic methods of genetic engineering.
2. Explain plant tissue culture techniques for crop improvement and write its application.
3. Describe various sensors used in crop monitoring.
4. Explain in details methods of IPM.
5. Describe various types of landscaping.
6. Describe emerging technologies for disease detection and control.
7. Write diagnosis management of plant disease.
8. Descirbe techniques of post harvest technology.
9. Explain techniques of ecological restoration.

Write notes on. (2.5 Marks each)

1. Importance of plant sciences in addressing global challenges.
2. Remote Sensing
3. Use of Drones for crop monitoring.
4. Integrated Pest Management
5. Application of vertical farming.
6. Urban Gardening
7. Landscaping
8. Applications of biotechnology in plant breeding.
9. Applications of biotechnology in abiotic stress tolerance.
10. Marker Assisted Selection (MAS)
11. Applications of beneficial microorganism
12. Organic Farming
13. Challenges in urban agriculture
14. Ornamental plant cultivation
15. Applications of GIS
16. Plant-Derived drugs
17. Biopharmaceuticals
18. Diagnosis of plant diseases
19. Plant Ecology
20. Biodiversity conservation