Padasalai’s Telegram Groups!

(தானி பாடலை தொடர் கல்விகள் தொடர்பு தொடர்புகள்!)

- Padasalai's NEWS - Group
  https://t.me/joinchat/NIfCqVRBNj9hhV4wu6_NqA

- Padasalai's Channel - Group
  https://t.me/padasalaichannel

- Lesson Plan - Group
  https://t.me/joinchat/NIfCqVWwo5iL-21gzrXLw

- 12th Standard - Group
  https://t.me/Padasalai_12th

- 11th Standard - Group
  https://t.me/Padasalai_11th

- 10th Standard - Group
  https://t.me/Padasalai_10th

- 9th Standard - Group
  https://t.me/Padasalai_9th

- 6th to 8th Standard - Group
  https://t.me/Padasalai_6to8

- 1st to 5th Standard - Group
  https://t.me/Padasalai_1to5

- TET - Group
  https://t.me/Padasalai_TET

- PGTRB - Group
  https://t.me/Padasalai_PGTRB

- TNPSC - Group
  https://t.me/Padasalai_TNPSC
STD: XII  
BIO-BOTANY
LESSION -1  ASEXUAL AND SEXUAL REPRODUCTION IN PLANTS

2 or 3 MARKS
1. ALL BOOK BACK QUESTIONS
2. Write about some methods of asexual reproduction.
3. What is diaspore?
4. What are the advantages of natural vegetative reproduction?
5. Define pollinium.
6. Draw the diagram and label the parts of T.S of mature Anther
8. Draw the diagram types of ovules.
9. Define Cleistogamy
10. Define Homgamy
11. What is Gaitonogamy
12. What is Xenogamy.
13. Define protandry and protogyny
14. Define Herkogamey
15. What are the characteristic features of Anemophilous.
16. Significance of pollination.
17. What are the three types of pollen tube entry in to ovule.
18. What is double fertilization?
19. Define triple fusion
20. What is the function of endosperm
21. Draw a diagram three types of endosperm.
22. Draw a diagram mature embryo in a seed.
23. What is Apomixis?
24. What is Apospory?
25. Draw a diagram of polyembryony.
26. What is parthenocarpy fruit.
27. Significance of parthenocarpy
28. What is pollenkit?
29. What is Tapetum and uses.

Five marks
1. All Book back questions.
2. Write about types of grafting.
3. Explain development of male gametophyte.
4. Explain types of ovules.
5. Explain structure of dicot seed.
6. Explain monocot seed.
LESSON -2
CLASSICAL GENETICS

2 OR 3 MARKS
1. All book back questions.
2. Define Heredity and variation.
3. Explain law of dominance.
4. Explain law of segregation.
5. Explain Atavism.

5- MARKS QUESTIONS
1. All book back questions.
2. Explain monohybrid cross.
3. Explain dihybrid cross.
4. Explain co-dominance.
5. Explain dominant epistasis.

LESSION -3
Chromosomal Basis of Inheritance

2 OR 3 MARKS
1. All book back questions.
2. Define fossil gene.
3. Different between mentelin factors and chromosomes behavior
4. Define linkage.
5. What is coupling and repulsion theory?
6. Define crossing over.
7. Types of crossing over.
8. What is genetic map?

5- MARKS QUESTIONS
1. All book back questions.
2. Explain mechanism of crossing over.
3. Importance of crossing over.
4. Explain sex determination in Papaya.
5. Explain sex determination of sphaerocarpos.
6. Explain sex determination of Maize.
7. Write about of Numerical chromosomal aberration.
8. Outline for ploidy.
9. Explain Allopolyploidy
10. Significance of ploidy
LESSION - 4
Principles and process of Biotechnology

2 OR 3 MARKS
1. All book back questions.
2. What is Basta?
3. Explain PHB.
4. Define Biochip.

5 MARKS
1. All book back questions.
2. Write notes on major focus of Biotechnology.
3. What are the applications of fermentation in industries.
4. Explain SCP
5. Explain genetic engineering.
7. Explain types of vector.
8. Explain Agrose gel electrophoresis.

LESSION - 5
Plant tissue culture

2 OR 3 MARKS
1. All book back questions.
2. What is totipontency
3. Write about media formulation for plant tissue culture.
4. What is agar?
5. What are the chemical sterilization.
6. What is hardening?
7. Write about some examples of industrially important plant secondary metabolites.
8. Define patents.
9. Ethical issues in genomic research.
10. Write notes on future of biotechnology.

5 MARKS
1. All book back questions.
2. Write the application of plant tissue culture.
3. What are the advantages of artificial seeds?

LESSION - 6
PRINCIPLE OF ECOLOGY

2 OR 3 MARKS
1. All book back questions.
2. Define Autecology and Synecology.
3. Define Niche and Ecotpe
4. Define Heliophytes and sciophytes.
5. Define Latitude and Altitude.
6. Define Euryhaline and Stenohaline.
7. What is Rhytidome?
8. Define ecotone and Edge effect.
9. What is mutalism?
10. What is commensalism?
11. Explain epiphytes or velamen.
12. What is negative interaction?
13. Define amensalism or allelopathy or antibiosis.
14. What is kairomone?
15. What is Hygropyhtes?
16. What is trichophyllous plants?
17. Define –Phyloclades, cladode, phylode and examples.
18. What is Tropophytes?
19. What is pheumatophores?
20. Write about ecologically important days.

5 marks
1. All book back questions.
2. Morphological adaptations of hydrophytes

LESSON - 7
ECOSYSTEM

2 OR 3 MARKS

1. All book back questions.
2. Define ecosystem.
3. What are the function of ecosystem?
4. What is community productivity?
5. What is energy flow?
6. What is (10%) ten percent law?
7. What is food chain and food web?
8. Significance of food web.
9. What is pyramid of number?
10. What is pyramid of biomass?
11. Write about pyramid of energy.

5 MARKS

1. All book back questions.
2. Explain structure of ecosystem.
3. Explain mechanism of decomposition.
4. Explain carbon and phosphorus cycle.
5. Outline for types of ecosystem.
6. Explain structure of pond ecosystem.
7. Write about strategy of ecosystem of management.
8. What are the characteristics of ecological succession.
9. Explain types of succession.
10. Explain type of carbon

LESSON – 8
ENVIRONMENTAL ISSUES

2 OR 3 MARKS
1. All book back questions.
2. What is the green house gas?
3. Write human activities lead to produce the green house effect.
4. What are strategies to deal with global warming?
5. What is ozone depletion?
6. What is Dobson unit?
7. Effects of ozone depletion?
8. What is invasive species?
9. Write about some of endemic plants and endemic centre.
10. What is carbon sink?
11. Define biochar.
12. What is the benefits of EIA to society

5 Marks
1. All book back questions.
2. Explain source of green houses gas emission.
3. Write about alien species which cause Environmental issues.
4. Explain Chipko movement and Appiko movement.
5. Write notes on to reduce the carbon foot print.
6. What are the importance of GIS.
7. What is remotesensing and specific uses

LESSOION -9 PLANT BREEDING

2 OR 3 MARKS
1. All book back questions.
2. Write N2 fixing bio fertilize given example.
3. Define Rhizobium.
4. What is Biopesticides?
5. Write about Trichoderma.
6. Write about Beauveria.
7. What are the most important green manure crops, and green leaf manure plants?
8. Write about objective of plant breeding.
9. Write about steps in plant breeding.
10. What is hybrid?
11. What is Psuedoheterosis?
12. What is physical and chemical mutagenic agents?
13. What is polyploid breeding?
15. Define NOHRIN 10.
16. What are the two species of Sugarcane.
17. Write about modern plant breeding?

5 MARKS
1. ALL BOOK BACK QUESTIONS
2. Write about possible changes in the plant species due to domestication.
3. Explain seaweed liquid fertilizer.
4. Explain two type of plant introduction.
5. Explain selection method.

LESSON -10 ECONOMICALLY USEFUL PLANTS

2 OR 3 MARKS
1. All book back questions
2. What are the prominence of cereals as food plants?
3. What are the uses of wheat?
4. What are the uses of mango?
5. What are the uses of groundnut?
6. Write about origin and area cultivation.
7. What are the three species of cotton?
8. Write about manufacture of wood pulp
10. What is entrepreneurial botany?

5marks
1. All book back questions.
2. What are the preparation of Bio-pest repellent.

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