



# Padalsalai's Telegram Groups!

( தலைப்பிற்கு கீழே உள்ள லிங்கை கிளிக் செய்து குழுவில் இணையவும்! )

- **Padalsalai's NEWS - Group**  
[https://t.me/joinchat/NIfCqVRBNj9hhV4wu6\\_NqA](https://t.me/joinchat/NIfCqVRBNj9hhV4wu6_NqA)
- **Padalsalai's Channel - Group**  
<https://t.me/padasalaichannel>
- **Lesson Plan - Group**  
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- **12th Standard - Group**  
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- **11th Standard - Group**  
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- **6th to 8th Standard - Group**  
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- **1st to 5th Standard - Group**  
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- **TET - Group**  
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- **PGTRB - Group**  
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- **TNPSC - Group**  
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**KAMALAMMAL** MATRIC. HR.  
SEC. SCHOOL

GANDHI NAGAR, THANIPADI.

## Cyclic Test - II

Time : 3.00 Hrs.

## XII<sup>th</sup> BOTANY

Max. Marks: 70

**I. Choose the correct answer:**

**15 x 1 = 15**

1. The interdependent evolution of following plants and pollinating insects together is called as

- a) parasites                      b) predation  
c) symbiosis                      d) co-evolution

2. Out of the total sunlight

Column I

Column II

- A. 34% - i) used by green plants  
B. 10% - ii) reaches the earth surface  
C. 2-10% - iii) reflect back to atmosphere  
D. 56% - iv) by ozone

**A                  B                  C                  D**

- |    |     |     |    |     |
|----|-----|-----|----|-----|
| a) | II  | III | I  | IV  |
| b) | II  | IV  | I  | III |
| c) | I   | II  | IV | III |
| d) | III | IV  | I  | II  |

3. Identify the correct statements from the below the effects deforestation

- i) Leads to the formation of deserts
- ii) Decreased global warming
- iii) The amount of runoff water decreases soil erosion
- iv) Alter water cycle in eco system

- a) i, ii and iii only                      b) i and ii only  
c) i and iv only                              d) ii and iii only
4. Which one of the following pairs is mismatched?
- a) Solar energy - green house effect  
b) Fossil fuel burning – release of CO<sub>2</sub>  
c) Biomass burning – release of CO<sub>2</sub>  
d) Nuclear power – radioactive wastes
5. True or False (T – True & F – False)
- a) The movement of energy from producers up to carnivores called food chain  
b) Main source of energy for the grazing food chain is sun  
c) Detritus food chain begin with living organic matter  
d) Grassland and pond Ecosystem are always inverted
- a) TTFF                      b) TTTT                      c) FFTT                      d) FFFF
6. Select the correct answer according to the codes given above.
- Anatomical adaptations of xerophytes are
- i) Stomata sunken and covered by hair  
ii) Stomata absent (or) functionless  
iii) Conducting and mechanical tissues well developed  
iv) Aerenchyma is well developed
- a) i, ii, iii and iv are correct                      b) i and iii are correct  
c) ii and iii are correct                              d) iii and iv are correct
7. The best pH of soil for cultivation is
- a) 3.4 to 5.4      b) 4.5 to 5.5      c) 5.5 to 6.8      d) 6.5 to 7.5
8. Read the following statement

- i) Liquid sea weed fertilizer is not only organic but also eco friendly
- ii) Trichoderma species is an free living bacteria
- iii) Beauveria species is an entomopathogenic fungus
- iv) Wheat varieties of Sonora 63, Sonora 64 from south America

- a) i and ii only correct      b) i and iii only correct
- c) i and iv only correct      d) ii and iv only correct

9. Which one of the following matches is correct?

- a) Pseudo cereal - quinoa
- b) Anacardium - sesamum
- c) Poaceae - cashew nut
- d) Pedaliaceae - saccharum

10. Match it.

Column I

Column II

- |            |   |                |
|------------|---|----------------|
| A. Palmyra | - | i) Lythraceae  |
| B. Teak    | - | ii) Poaceae    |
| C. Ragi    | - | iii) Lamiaceae |
| D. Henna   | - | iv) Arecaceae  |

- | <b>A</b> | <b>B</b> | <b>C</b> | <b>D</b> |
|----------|----------|----------|----------|
| a) I     | II       | III      | IV       |
| b) IV    | III      | I        | II       |
| c) IV    | III      | II       | I        |
| d) III   | IV       | II       | I        |

11. An example for semi dwarf variety of rice is

- a) Sonalika      b) Sonora      c) Jaya      d) Lermaroja

12. The environment of any community is called \_\_\_\_\_.  
a) Ecotype      b) Biotope      c) Ecotope      d) Epitope
13.  $GPP = \text{_____} + \text{Respiration loss.}$   
a) NPP      b) GPP      c) SPP      d) primary productivity
14. Identify the correctly matched pair  
a) *Nepenthes khasiyana* – Peninsular India  
b) *Hardwickia binata* – Northern India  
c) *Bentinckia condappana* – Khasi hills  
d) *Baccaurea courtallensis* - Kerala
15. Assertion : Spices are aromatic plant products and are characterized by sweet (or) bitter taste.  
Reason : Spices are added maximum quantities during the cooking process.  
a) Assertion is correct; Reason is wrong  
b) Assertion is wrong; Reason is correct  
c) Both are correct and Reason is the correct explanation  
d) Both are incorrect

## II. Answer any SIX of the following questions:

**(Qn. No. 22 compulsory)**

**6 x 2 = 12**

16. Comment on Amensalism (or) What is antibiosis.
17. Define ten percent Law.
18. What is Biochar? How it is produced?
19. Define euheterosis.
20. Which spice is known as “Black gold of India”? write its uses.
21. What is phytoremediation?

22. What will happen if all producers are removed from ecosystem?
23. What is invasive species?
24. What is pseudo cereal? Give an example.

**III. Answer any SIX of the following questions:**

**(Qn. No. 30 compulsory)**

**6 x 3 = 18**

25. What are millets? What are its types?
26. List out the new breeding techniques involved in developing new traits in plant breeding.
27. Write any four benefits of agro forestry.
28. List out the effects of fire to plants.
29. Write objectives of plant breeding.
30. Discuss the gross primary productivity is more efficient than net primary productivity.
31. What are the different types of hybridization?
32. Write short notes on Prosopis juliflora.
33. Write a note on phosphorus cycle.

**IV. Answer the following questions:**

**5 x 5 = 25**

34. Give an account of various types of parasitism with examples.

**(OR)**

Draw a pyramid from following details and explain in brief.

Quantities of organisms are given – Hawk – 50, Plants – 1000, Rabbit and Mouse – 250 + 250, Pythons and Lizard – 100 + 50 respectively.

35. Generally human activities are against to the ecosystem. Where as you a student how will you help to protect ecosystem? **(OR)**

Write environmental benefits of Rain water harvesting.

36. Suggest a solution to water crisis and explain its advantages. **(OR)**

Write detailed account on seaweed liquid fertilizer.

37. How are microbial inoculants used to increase the soil fertility? **(OR)**

What are psycho active drugs? Add a note marijuana and opium.

38. How will you prepare an organic pesticide for you home garden with the vegetables available from your kitchen? **(OR)**

What are important edaphic factors? Which affect vegetation?

*~~~All the Best~~~*



*Prepared by...*

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