Padasalai’s Telegram Groups!

(தமிழ்ப்பிள்ளை கற்று கல்வி விளையாட்டு தினம் உரையாடு செய்து வெளியிட்டும்!)

- 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-21gpzrXLw

- 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
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
4. Which one of the following pairs is mismatched?
   a) Solar energy - green house effect
   b) Fossil fuel burning – release of CO₂
   c) Biomass burning – release of CO₂
   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 fissues 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) Poaceale - cashew nut
   d) Pedaliaceae - saccharum

10. Match it.

<table>
<thead>
<tr>
<th>Column I</th>
<th>Column II</th>
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<tbody>
<tr>
<td>A. Palmyra</td>
<td>i) Lythraceae</td>
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<tr>
<td>B. Teak</td>
<td>ii) Poaceae</td>
</tr>
<tr>
<td>C. Ragi</td>
<td>iii) Lamiaceae</td>
</tr>
<tr>
<td>D. Henna</td>
<td>iv) Arecaceae</td>
</tr>
</tbody>
</table>

   A   B   C   D

   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 = __________ + 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 hybrization?
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~~~

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