



# Padasalai's Telegram Groups!

( தலைப்பிற்கு கீழே உள்ள லிங்கை கிளிக் செய்து குழுவில் இணையவும்! )

- Padasalai's NEWS - Group  
[https://t.me/joinchat/NIfCqVRBNj9hhV4wu6\\_NqA](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](https://t.me/Padasalai_12th)
- 11th Standard - Group  
[https://t.me/Padasalai\\_11th](https://t.me/Padasalai_11th)
- 10th Standard - Group  
[https://t.me/Padasalai\\_10th](https://t.me/Padasalai_10th)
- 9th Standard - Group  
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- 6th to 8th Standard - Group  
[https://t.me/Padasalai\\_6to8](https://t.me/Padasalai_6to8)
- 1st to 5th Standard - Group  
[https://t.me/Padasalai\\_1to5](https://t.me/Padasalai_1to5)
- 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 - 1

Time : 3.00 Hrs.

**XII<sup>th</sup> BIO-BOTANY**

Max. Marks:

### I. Choose the correct answer:

**10 x 1 = 10**

1. Choose the correct statement about tenuinucellate ovule
  - a) sporogenous cell is hypodermal
  - b) ovules have fairly large nucellus
  - c) sporogenous cell is epidermal
  - d) ovules have single layer of nucellus tissue
2. Choose the incorrect pair
  - a) March 21 – world forest day
  - b) April 22 – earth day
  - c) May 22 – international ozone day
  - d) June 05 – world environment day
3. Match the following:
 

A – O – Horizon	- (i) parent material
B – A – Horizon	- (ii) organic horizon
C – B – Horizon	- (iii) leached horizon
D – R – Horizon	- (iv) accumulation horizon

  

A	B	C	D
a) (iii)	(i)	(iv)	(ii)
b) (ii)	(i)	(iii)	(iv)
c) (i)	(ii)	(iii)	(iv)
d) (ii)	(iii)	(iv)	(i)

4. Choose the incorrect statement

- (i) Plant tissue culture is used in clonal propagation
- (ii) The culture room can be sterilized by autoclave
- (iii) MS medium is the commonly used nutrient medium
- (iv) B<sub>5</sub> medium is also called Nitsch medium

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

5. Dicet and Drosha are \_\_\_\_\_.

- a) plasmids
- b) rDNA
- c) enzyme
- d) transgenic plants

6. Choose the correct pairs:

- a) Single cross - Genetic map
- b) Allen - Nicotiana - sex determination
- c) Recombination - Robin Holliday
- d) Papaya -  $n = 17$

7. Incomplete dominance was reported in \_\_\_\_\_.

- a) mirabilis
- b) wheat
- c) tobacco
- d) cucurbita

8. Choose the correct pair:

- a) Diaecious - Boressus
- b) Self sterility - Passidlora
- c) Heterostyly - Hibiscus
- d) Prorogyny - Aristolochia



**IV. Answer all questions:**

**3 x 5 = 15**

22. Enumerate the characteristic feature of Entomophilous flowers. **(OR)**

Write a note on Atavism.

23. Explain the mechanism of crossing over. **(OR)**

Write the benefits and risk of Genetically modified foods.

24. Explain the basic concepts involved in plant tissue culture. **(OR)**

What are the advantages of seed dispersal?

*~~~All the Best~~~*

# Padasalai



*Prepared by...*

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# KAMALAMMAL MATRIC. HR. SEC. SCHOOL

GANDHI NAGAR, THANIPADI.

## Cyclic Test - 1

Time : 3.00 Hrs.

**XII<sup>th</sup> BIO-ZOOLOGY**

Max. Marks: 70

**I. Choose the correct answer:****10 x 1 = 10**

- Which method of a sexual reproduction can be said as method of regeneration?
  - binary fission
  - sporulation
  - budding
  - fragmentation
- Which part is cut and tied in tubectomy?
  - funnel of fallopian tube
  - ovaries
  - fullopain tube
  - uterus
- The division of zygote forms in to 16 daughter cells this stage is called \_\_\_\_\_.
  - blasta cell
  - blastomeres
  - morula
  - (a) and (b) both
- Which of the following symbols are used for representing sex chromosomes of birds
  - zz - zw
  - xx - xy
  - xo - xx
  - zz - ww
- Which of the following is true about Rh factor in the offspring of a parental combination Dd × Dd (both Rh positive)?
  - All will be Rh - positive

- KAMALAMMAL MATRIC. HR. SEC. SCHOOL, GANDHI NAGAR, THANIPADI**



**II. Answer any SEVEN questions:****7 x 2 = 14**

11. List out and explain the types of natural parthenogenesis?
12. What is nebenkern?
13. Explain cryopreservation technique.
14. Mention the symptoms of down's syndrome.
15. What is founder effect?
16. What are interferons? Mention their role.
17. Classify Antibiotics.
18. Define ecological niche.
19. Define Allen's rule.

**III. Answer any SEVEN questions:****(Question No. 22 compulsory)****7 x 3 = 21**

20. Explain various phases of life cycle.
21. Give a schematic representation of spermatogenesis in humans.
22. Explain various types of IUDs.
23. What are the applications of karyotyping?
24. Mention the main objection to Darwinism.
25. List out the features of mutation theory.
26. Write the scientific name of the filarial worm that causes filariasis.
27. What is the key difference between primary and secondary sewage treatment?



28. Differentiate J and S shape curve.

**IV. Answer any FIVE questions:**

**5 x 5 = 25**

29. Differentiate between Tundra and Taiga Biomes.

30. List out various barriers of innate immunity and their mechanism.

31. Explain stabilizing, directional and disruptive selection with examples.

32. Write short notes on Darwin's theory.

33. Explain the causes, inheritance pattern and symptoms of two Mendelian genetic disorders.

(i) Albinism

(ii) Thalassemia

34. Write notes on two bacterial disease STD.

35. Explain the various phases of the menstrual cycle.

36. Write short notes on types of syngamy.

*~~~All the Best ~~~*



*Prepared by...*

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