

Padasalai⁹S Telegram Groups!

(தலைப்பிற்கு கீழே உள்ள லிங்கை கிளிக் செய்து குழுவில் இணையவும்!)

- 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



KAMALAMMAL MATRIC. HR. SEC. SCHOOL

GANDHI NAGAR, THANIPADI.

Cyclic Test - 1

Time: 3.00 Hrs. XIIth BIO-BOTANY Max. Marks:

I. Choose the correct answer:

 $10 \times 1 = 10$

- 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) oveules 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)

- www.Padasalai.Net www.TrbTnpsc.com 4. Choose the incorrect statement (i) Plant tissue culture is used in clonal progation (ii) The culture room can be sterilized by autoclave (iii) MS medium is the commonly used nutrient medium (iv) B₅ 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 = 177. Incomplete dominance was reported in _____. a) mirabilis b) wheat c) tobacco d) cucurbita
- 8. Choose the correct pair:
 - a) Diaecious Boressus
 - Passidlora b) Self sterility
 - Hibiscus c) Heterostyly
 - d) Prorogyny Aristolochia

- 9. Ecology is the study of an individual species is called
 - (i) community ecology
- (ii) autecology

(iii) species ecology

(iv) synecology

a) (i) only

b) (ii) only

c) (i) and (iv) only

- d) (ii) and (iii) only
- 10. Which one of the following is an example for polygenic inheritance?
 - a) Flower color in mirabilis jalaba
 - b) Production of male honey bee
 - c) Pod shape in garden pea
 - d) Skin color in humans

II. Answer any FIVE questions:

 $5 \times 2 = 10$

- 11. What are multiple alleles?
- 12. What is synapsis?
- 13. What are okazaki fragment?
- 14. Name the chemical used in gene transfer.
- 15. Draw the flow chart of general steps in patenting.
- 16. Write any two advantages of seed dispersal.

III. Answer any FIVE questions:

 $5 \times 3 = 15$

- 17. Distinguish habitat and niche.
- 18. What do you mean Embryoids? Write its application.
- 19. Write the advantages of herbicide tolerant crops.
- 20. What is gene mapping? Write its uses.
- 21. Draw and label the parts of polyembryong embro sae.

IV. Answer all questions:

 $3 \times 5 = 15$

22. Enumerate the characteristic feature 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 ~~~



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KAMALAMMAL MATRIC. HR. SEC. SCHOOL

GANDHI NAGAR, THANIPADI.

ENTER-ENRICH-EN	de la constant de la	Cyclic Tes	st - 1	N.PP		
Time	: 3.00 Hrs.	XIIth BIO-ZO	OLOGY	Max. Marks: 70		
I. Ch	oose the cor	rect answer:		10 x 1 = 10		
1. W	hich method	of a sexual re	eproduction	can be said as		
m	ethod of reger	neration?				
a)	binary fission	0000	b) sporul	ation		
c)	budding		d) fragme	entation		
2. W	Which part is cut and tied in tubectomy?					
a)	funnel of fallo	pian tube	b) ovaries	s (2019		
c)	fullopain tube		d) uterus			
3. Tl	ne division of	zygote form	s in to 16	daughter cells		
th	is stage is cal	led	- () 53			
a)	blasta cell		b) blastor	meres		
c)	morula		d) (a) and	l (b) both		
4. W	hich of the	following	symbols a	are used for		
re	representing sex chromosomes of birds					
a)	zz - zw		b) xx - xy	7,0019		
c)	xo – xx		d) zz – wy	W		
5. W	Which of the following is true about Rh factor in the					
of	offspring of a parental combination $Dd \times Dd$ (both Rh					
po	ositive)?					
a)	All will be Rh	– positive				

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	b) Half will br Rh positive	White.	
- a\d	c) About ¾ will be Rh negat	tive	
	d) About one fourth will be	Rh negative	
6.	Who is related with mo	odern synthetic theory o	of
	evalution?		
	a) dobzhansky	b) Haldane	
	c) mayr	d) devries	
7.	The age of fossils can be de	etermined by	
	a) electron microscope	b) weighing the foosils	
C	c) corbon dating	d) analysis of bones	
8.	Paratope is an		
	a) Antibody binding site on	variable regions	
	b) Antibody binding site on	heavy regions	
	c) Antigen binding site on v	variable regions	
	d) Antigen binding site on h	neavy regions	
9.	Cyclosporine - A is an	immunosuppressive dru	ıg
	produced from		
	a) aspergillus niger	b) manascus purpureus	
	c) penicillium notatium	d) trichoderma polysporum	n
10	The interaction in nature,	, where one gets benefit o	n
	the expense of other is		
	a) predation	b) mutualism	

d) commensalim

c) amensalism

 $7 \times 2 = 14$

II. Answer any SEVEN questions:

- 11. List out and explain the types of natural parthenogesis?
- 12. What is nebenkern?
- 13. Explain cryopreservation technique.
- 14. Mention the symptoms of downs 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)

- 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 diffence between primary and secondary sewage treatment?

 $7 \times 3 = 21$

28. Differentiate J and S shape curve.

IV. Answer any FIVE questions:

 $5 \times 5 = 25$

- 29. Differentiate between Tundra and Taiga Biomes.
- 30. List out various barriers of innate immunity and their melanism.
- 31. Explain stabilizing, directional and distruptive selection with examples.
- 32. Write short notes on Darwin's theory.
- 33. Explain the causes, inheritance pattern and symptoms of two mentelian 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 ~~~



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