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**Tenkasi District Common Examinations** Common Half Yearly Examination - December 2022

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21,12.2022

1312Bio

Standard - 12 **BIOLOGY** 

Time Allowed: 3.00 Hours

**BIO - BOTANY** 

Maximum Marks: 70

8×1=8

PART - I

Choose the correct answer:

1. New world species of cotton.

- a) Gossipium arboretum
- b) G.herbaceum

c) Both a and b

- d) G.barbadense
- 2. The quickest method of plant breeding is
  - a) Introduction

b) Selection

c) Hybridization

- d) Mutation breeding
- 3. Depletion of which gas in the atmosphere can lead to an increased incidence of skin
  - a) Ammonia
- b) Methane
- c) Nitrous oxide d) Ozone
- 4. Which of the following is/are not a natural ecosystem?
  - a) Forest ecosystem
- b) Rice field
- c) Grassland ecosystem
- d) Desert ecosystem
- 5. Which of the given plant produces cardiac glycosides?
  - a) Calotropis
- b) Acacia
- c) Nepenthes
- d) Utricularia

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- 6. What is the secondary metabolite that is obtained from chinchona officinalis?
  - a) Digoxin
- b) codeine c) Capsaicin
- d) Quinine comment and the second

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- 7. Algae used for the production of Single cell protein
  - a) Alcaligenes
- b) Candida utilis c) Spirulina
- d) Saccharomyces
- 8. Part that gets tranformed into seed after fertilization
  - a) Ovary
- b) Ovule
- c) Nucellus

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d) Antipodal cells

Dates of the Control

## Answer any four of the following.

- 9. What are clones?
- 10. Give the names of the scientists who reducovered Mendelism.
- 11. What are the materials used to grow microorganism like Spirulina?
- 12. What do you mean by Embryoids?
- 13. What is ecological hierarchy?
- Give definitions for Organic farming.

## Answer any three of the following. Question Number 19 is compulsory.

- 15. Enumerate the uses of turmeric.
- 16. Differentiate primary introduction from secondary introduction.
- 17. Expand CCS.
- 18. What is seed ball?
- 19. List out the functions of tapetum

## Answer the following.

20. a) Explain the different modes of entry of pollen tube into the ovule.

(OR)

- b) Differentiate continuous variation with discontinuous variation.
- 21. a) What are restriction enzymes? Mention their types with role in Biotechnology.

(OR)

b) Explain the basic concepts involved in plant tissue culture.

Ts12Bio

BIO - ZOOLOGY SECTION - I

Cho	pose the best answer:				0.44
1.					8×1=8
	a) Ceratium b) Vorticella	c) Parameciu	ım	d) Amoeba	
2.	Albinism is due to	2		-, , , , , , , , , , , , , , , , , , ,	
	a) Autosomal recessive gene	b) Autosoma	l dor	minant gene	
	c) Allosomal recessive gene	d) Allosomal	dom	inant gene	
3.	Which one is correctly matched			30.10	
	a) Reptiles and Birds - Archeopte	rynx			
	b) Homologous organ - Converger	nt Evolution			
	c) Neo-Darwisin - Osborn, Pa	ckard, cope			
	d) Darwin's finches - ALX1 gene	. (212)			
	Code:-				
	1. 'A' and 'D' Only			The state of the	
	2. 'A' and 'B' only				
	3. 'A' only			- AN	čer 😮
	4. A, B and D Only				
4.	The Duration of Erytherocytic cycle of Quar	tran Malaria	is _		
	a) 48 Hrs b) 72 Hrs	c) 47 Hrs		d) 36-48 Hrs	
5.		rug Produced	d froi	m	
	a) Aspergillus niger c) Penicillium notatum	o) Manascus	purp	oureus	
	c) Penicillium notatum	d) Trichoderm	na po	olysporum	
6.	iransgenic animals are those which have				
	a) Foreign DNA in some of their cells	) Foreign DN	IA in	all their cells	
_	c) Foreign RNA in some of their cells	d) Foreign RN	IA is	all their cells	
1.	Which one is incorrectly matched?				
	a) Predation - Lion and Deer		0	1.7 - 997	
	b) Commensalism - Sucker fish and Sh	ark		de la regiona.	
	c) Steotherms - Cat, dog, Tiger d) Phototaxis - moth				
8		an rich man h	T1.	1.000	
٥.	<ul> <li>Assertion: Eutrophication due to nutrient which affect the quality of water.</li> </ul>	enrichment	. Ini	is causes a alg	gal bloom
	Reason: Red tides, if occur, can be lethal to	o aquatic oro	anic		
		b) Both 'A' an			
		i) Both 'A' an			
	SECTION		<u>.</u>	are correct	
Ans	swer any four questions.	1000	2,		4×2=8
9.	Expand the following 1. PAN 2. CFC.		at, d	a constitution of	1112-0
10.	, ,	Light San Till		As a care	
11.	Any two disadvantages of cloning.			4 A 1 10 1	
12.		hy?			
13.	J. Transcribgeing	effects.			
14.	at the second se	the state of the s			
a also ass	SECTION		*	Sec. 11 December 1	
Ans	wer any three questions. Question Number 1	B is compulso	ory.	10	3×3=9
15.	The state of the s	Why? Explain	n.		
16. 17.	- July Chillip a	nd Incubatio	n pe	riod of Genital	warts
18.			Į.		
10.	Taking the example of peppered moth, exp What do you call the above phenomenon?	lain the action	on o	natural select	on.
19	Any three uses of Transgenesis.		Chi	AKUMAR.	M
	SECTION				
	swer all:	•	SRI	RAM MATE	2×5=10
	Effects and Control of Air pollution.				273-10
	(OR)			10m-65180	
	Explain the various steps involved in PCR t	echnique.	Te	en kousi D	ISERCE
21.0	Explain the structure of Immunoglobulin wi				
	(OR)				
	Explain maintenance of pregnancy and em	bryonic deve	lopm	ent.	19
				THE STATE OF THE S	,