

12th Standard

BIOLOGY

FIRST REVISION TEST-2023

Various District
Question Paper Collection

WAY TO SUCCESS
PUDHUKOPTAL
WAY KIKOTOM - DIST

_	FIRST REVISIO	N TEST - 2023	Exa	m No).		
Tim	e : 3-00 Hours	XII - BIO	LOGY	1	Jake	Man	ks : 70
Vote	e: Candiate should ar	nswer Part-I (Bio-Bota	ny) & Pa	rt-II(Bio-zoo	ology) i	7
	separate answer-	(PART - I) BIO - B	OTANY	1		No super	
		SECTION -	I	(Mai	KS:35)	100	
Vote	e; 1) Answer all the qu	estions. 2) Choose t		ct ans	wer.		(8x1=1
4	Match	annichmen van termeren.		a	ь	C	В
	a. Orthotropus	i) Cactaceae	a.	iii	N .	ii	1
	b. Hemianotropus	ii) Alismataceae	b.	iii	iv	i	ji
	c. Amphitropus	iii) Polygonaceae	C.	i.	ii	iii	N
	d. Circinotropus	iv) Primulaceae	d.	1	II	iv	ill
2.	Select the period for	Mendel's hybridization	experim	ents		Jan.	
	a) 1850-1857 ·	b) 1853-1860	c) 185	66-186	3	d) 1	859-18
3.	An allohexaploidy cor	ntains		- 4	-	A	1
	a) Six different geno	omes b)	Six copi				
	c) Iwo copies of thr	ee different genomes	d) Six	copie	s of on	e geno	me
1.	EcoRI cleaves DNA		-	A.			
5.	a) AGGGTT	b) GTATATC	c) GA	ATTC		(d)	TATAGO
	a) Producers . See	ending order of a food	chain			ALTERON S	SI BERVINE
	h) Tertian concumer	ndary consumers → Pr	mary cor	isume	rs → 1e	ertiary o	onsum
	c) Tertiany consumer	s → Primary consumers	\rightarrow Seco	ndary	consun	ners →	Produc
	d) Tertiary consumer	s → Secondary consum	iers → Pi	mary	consur	ners →	roduc
5.	Find out the correct	s → Producers → Prima	ry consul	ners -	> Seco	ndary o	onsum
	· ma out the correct	pair. a) N, fixing l b) P solubiliz	noter uniza	er - Da	Anah	abuiis	
		c) P mobilizio	na hiofer	ilizer -	Degud	omona	Olide
	d) Plant o	rowth promoting Rhizo	bacteria	- Pope	domor	as fluo	recren
7.	Observe the following	g statements and pick	out the r	ight or	otion fr	om the	followi
	Statement I - Perfu	mes are manufactured	from occ	ential	oile	OIII GIC	I CHO (II
		the of the individuctored	HOIH ess		OHS		54000000
	Statement II - Esse	ntial oils are formed at	different	parts	of the	plants	
	a) Statement I is co	ntial oils are formed at rrect	different	parts	of the	plants	
	a) Statement I is coc) Both statements	ntial oils are formed at rrect are correct	b) Sta	parts temer	of the	correct	rono
8.	Statement I is co Both statements One green house g	ntial oils are formed at irrect are correct gas contributes 14% (different b) Sta d) Bot of total	parts temer th stat	of the	correct	rono
в.	Statement I is co Both statements One green house g contributes 6%. The	ntial oils are formed at irrect are correct gas contributes 14% of ese are respectively ide	b) Sta d) Bot of total on intified as	parts temen th stat global	of the it II is ements warmi	correct s are w	rong I anoth
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Not 9. 11. 13. Not 15. 16. 17. 19.	a) Statement I is co c) Both statements One green house g contributes 6%. The a) N ₂ O and CO ₂ e: Answer any four of Define Genetics. What is sterilization? Define Deforestation e: Answer any three of Write short notes on Draw the labelled str What is Albedo effect Write short notes on e: Answer all the folic a) What is endosper b) What do know ab	ntial oils are formed at orrect are correct gas contributes 14% of the sear respectively ide b) CFCs and N ₂ O SECTION - the following question 10. \ 12. \ 14. W SECTION - 14. W SECTION - 15 the questions. Quest 15 Sonora 64. Tucture of Ti Plasmid. 15 and write their effect 16 Heterosis? SECTION - 17 SECTION - 18 SE	different b) Sta d) Bot of total of ontified as c) CH, II ss. What is M What is p rite short III ion No.1:	parts stementh stat global and (ellitop hytore notes	of the it II is ements warming to 202 hilly? Emediate on Be impulse. What is	correct s are wing and d) CH ₄ tion? auveria	rong I anoth and CF 4x2=8 species (3x3=9 hole?
Not 11. 13. Not 15. 16. 17.	a) Statement I is co c) Both statements One green house g contributes 6%. The a) N ₂ O and CO ₂ e: Answer any four of Define Genetics. What is sterilization? Define Deforestation e: Answer any three of Write short notes on Draw the labelled str What is Albedo effect Write short notes on e: Answer all the folic a) What is endosper b) What do know ab a) Draw a pyramid fr	ntial oils are formed at orrect are correct gas contributes 14% of the gas are respectively ide b) CFCs and N ₂ O SECTION - the following question 10. \ 12. \ 14. W SECTION - 15. Section - 16. Section - 17. Section - 18. Secti	different b) Sta d) Bot of total of ontified as c) CH, II ss. What is M What is prite short III ion No. 1:	parts stementh stat global s and (ellitop hytore notes	of the it II is ements warming to 202 hily? Immediate on Be impulse. What is	correct s are wing and d) CH ₄ tion? auveria	rong I anoth and CF 4x2=8 species (3x3=9 hole?
Not 11. 13. Not 15. 16. 17. 19.	a) Statement I is co c) Both statements One green house g contributes 6%. The a) N ₂ O and CO ₂ e: Answer any four of Define Genetics. What is sterilization? Define Deforestation e: Answer any three of Write short notes on Draw the labelled str What is Albedo effect Write short notes on e: Answer all the folio a) What is endosper b) What do know ab a) Draw a pyramid fr Quantities of Organical controls c) Both statements I is co c) c) Both statements c) Both stateme	ntial oils are formed at orrect are correct gas contributes 14% of the sear respectively ide b) CFCs and N ₂ O SECTION - the following question 10. \ 12. \ 14. W SECTION - 14. W SECTION - 15 the questions. Quest 15 Sonora 64. Tucture of Ti Plasmid. 15 and write their effect 16 Heterosis? SECTION - 17 SECTION - 18 SE	different b) Sta d) Bot of total intified as c) CH, II is. What is M What is M What is prite short III ion No. 1: Write its Is and ex	parts stementh stat global and (ellitop hytore notes s adva plain i	of the it II is ements warming to 202 hily? Immediate on Be impulse. What is	correct s are wing and d) CH ₄ tion? auveria	rong anoth and CF 4x2=8 species (3x3=9 hole?

(PART - I) BIO - ZOOLOGY (Marks:35)

		SECTION .	· I		
Not	e: 1) Answer all the questions.		the con	rect answer.	(8x1=8)
1.	Leydig cells secrete a hormor a) Inhibin D Te	ne called stosterone	c) F	Progesterone	d) Oestrogen
2.	Which one of the following is'				
	a) IAIA b) IBI	В	c) I	ΑIB	(d) Iolo
3.	An operon is a				
	 a) Protein that suppresses get 	ene expressio	n		
	b) Protein that accelerates go				-
	Cluster of structural genes	with related	function		
4.	 d) Gene that swithched other Who proposed the Germplas 	r genes on or	OII		A
7.	a) Darwin	in theory	(b) 4	lugust Weisman	nn (
	c) Lamark	1	d) A	Ifred Wallace	
5.	Match the following		٠		1
EQ.	1) Amoebiasis	i) Tsetse fly	,2	(a) 1) iii, 2)	1, 3) iv, 4) ii
	African sleeping sickness		um 4	b) 1) iii, 2)	
	3) Kala-azar	iii) House fli		c) 1) iii, 2)	
	4) Malarial fever	iv) Sand fly		d) 1) ii, 2)	
6.	Assertion(A): Insulin Prevent	THE RESERVE OF THE PARTY OF THE		All	
	Reason (R): Insulin helps to			ells	
	a) (A) is correct : but (R) is v	wrong	b) (A) is wrong : b	ut (R) is correct
	c) Both (A) and (R) are true,	but (R) does	snot ex	plain (A)	
	d) Both (A) and (R) are true,			A. Lincoln and	The same of the sa
7.	The relationship between suc				100
	a) competition (b) co	mmensalism	1	c) predation	d) parasitism
8.	In the E-waste generated by t	the mobile ph	one whi	ich among the f	ollowing metal is
	most abundant?		1		0.0
	(a) copper b) silv	/er		nlorine	d) florine
marco		SECTION -			(4-2-0)
	e: Answer any four of the follow	The same of the sa			(4x2=8)
9.	Expand the following, a) ZIF	THE RESERVE TO THE PARTY OF THE	CSI		
10.	Write two functions of codon				
11.	Which is refered to as 'Indust	trial alcohol?	Why?		THE REAL PROPERTY.
12.	What is Eutrophication?			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
13.	What is meant by Totipoteno				
14.	Write any two applications of				
		SECTION -			
Not	e: Answer any three of the que	stions. Quest	ion No.	19 is compulso	ry. (3x3=9)
15	Write a note on conjugation.	S. L. L.			
16.	Differentiate between diverg	ent evolution	and c	onvergent evol	luation with one
100	example for each.			Tollar Tollar	The Real Property
17.	Write a short note on 'stem of	cell banks'.			
18.	Differentiate between J-shape	ed and S-sha	ped gro	wth curves.	
19.	A character present in gra	andfather go	es to	grandson thr	ough daughter.
	Draw flow chart for this partt				
		SECTION -	IV		
Note	: Answer all the following que		Albert .		(2x5=10)
20.	a) Explain the permanent birt	h control me	thods.	(0)	7)
200	b) Explain any two genetical of			- MENTER	
21	a) Explain the structure of Th	lymusgland w	vith nea	t diagram. (O)	7)
	b) Explain the major causes for	or biodiversit	y declin	e.	

12-Biology-2

RV	FIRST REVISION TEST - 2023
X	I-Std BIOLOGY
	:: 3.00 Hrs Marks: 70
×	Bio - Botany
I	Choose the correct answer:- 8 X 1 = 8
1	Find the correct statements.
	a) in zostera pollination occurs upper surface of the water.
	b) Vallisneria is a monoecious and pollinated inside the water.
100	2) Trap machanism seen in Aselepiadaceae d) Piston machanism seen in panilionaceae
2.	statch :-
95	. Chemical weapon - 1. GFP
100	ii. Induced mutation in plants - 2Thermal neutrons
	iii. Castor seeds - 3. Dichloro ethylsulphide
. 9	iv. Aequorea victoria - 4. Gamma rays
	a) i-3 ii-4 iii-2 iv-1 b) i-3 ii-4 iii-1 iv-2 c) i-3 ii-2 iii-1 iv-4 d) i-1 ii-3 iii-2 iv-4
3.	Pick out the wrong pair.
	a) Vincristine - Anti carcinogenic
*	b) Codeine Analgesic
	c) Capsaicin - Ear Pain treatment
023	d) Quinine - Antimalarial
4.	The Alkaloid Juglone inhibits the growth of seedlings of
-	a) Apple and Tomato b) Apple and Sugarcane c) Alfalfa and sugarcane d) Tomato and sugarcane
5.	Total ozone layerover the earth surface is
2000	a) 0.3cm b) 3cm c) 3 mtr d) 0.3 DU
6.	Assertion (A) Breeding crop with Higher Level of vitamins and minerals or higher protein and
	healthier fats is called tissue culture
	Reason (R) Growing plan protoplast, cells, tissues and organs under Natural condition in called
	tissue culture.
	a) Both A and R correct b) Both A and R wrong
7	c) A correct R wrong d) A wrong R correct
7.	Which of the following indirectly increases carbon foot print
0	a) Kiwi b) Litchi c) Cherry d) Berry
8.	Which of the following is used to stops platelets from clotting in arteries which leads to heart attack.
	a) Tamarin b) Alloin c) Curcumin d) Capsisine PART - B
11	
9.	Answer any four questions:- What is Back Cross? 4 X 2 = 8
10	Write any two algae which are used for SCP.
11	What you mean Embryoids?
	What is ozone hole?
12	What is Passed agree 19

- 15. What is Pseudo cer
- Define Ecology? 14.

PART - C

Answer any three questions. Questions No. 19 is compulsory :-H

Write a short note on Pollen Kitt. 15.

Explain the Machanism of crossing over. 16.

- Write the three advantages of herbicide tolerant crops. 17.
- Cryopreservation Explain. 18.
- 19. What are seed balls?

PART - D

IV Answer in detail :-20. i) Draw and Label the Diagram of L.S. of Ovule. (OR)

ii) What is gene Mapping? Write its uses.

i) Describe the Dihybrid ratio of Mendel with suitable example. (OR) 21.

ii) Give an account of seaweed liquid fertilizer.

RM 12 EM Biology Page - 1

 $2 \times 5 = 10$

Bio - Zoolcgy Section - I

1.	1. Answer all questions. 2. Choose the most This gland is most active during neonatal and pr	t appropriate answer :- 8 X 1 = 8 e - adolescent periods
		c) Pituitary d) Tnyroid
2.	The mode of reproduction in bacteria is by	
	a) Formation of gametes) Endospore fermation
155	e) Conjugation	1) Zoospore formation
3.	A population will not exist in Hardy Weinberg eq	uilibrium if
1	a) ladividuals mate selectively) There are no mutations
		f) The population is large
4.	World biofuel day is observed every year on	
1.10		e) August 5th d) August 20th
5.	The nature sperms are stored in the	7.118
***) Vars deferens
		I) Seminal vesicle
6		
6.	Match the following and choose the correct com Column 1	Column II
101 041	a) Mutualism - 1. Lion and d	
	b) Commensalism - 2. Round wo	
		pete with squirrels for nuts
		one on hermit crab
10,000		attached to whales
	######################################) A-3 B-1 C-4 D 2 E-5
*3		I) A-5 B-4 C-2 D-3 E-1
7.	Which of the following is the correct sequence	. # 1 (1) - 1
	protein synthesis?	
	a) Transcription, Transduction, Replication b) Transcription	anscription, Replication, Translation
	c) Duplication, Transcription, Translation d) Re	plication, Transcription, Translation
8.	Inceneration, Chemical disinfection, autoclaving, enc	apsulation are the methods of waste disposal of
A my	a) Plastic waste b) E - waste c	c) Medical waste d) Radioactive waste
1	Note: Answer any four of the following que	estions :- 4 X 2 = 8
9.	Differentiate in situ bioremediation from exsitu b	ioremediation.
10	Write short note on ultrasound scanning.	
11.		
12.	Write any two applications of PCR.	The first of the second of the
13.	What are the effects of the introduction of tilapi	a fish from South Africa?
14.	Placenta is an endocrine tissue - Justify.	
1	Section -	3
	Note: Answer any three of the following Q	No. 19 is a compulsory one :- $3 \times 3 = 9$
15.	what is Pathenogenesis? Mention its types.	to the state of th
16.	What is referred to as reverse transcription PCI	₹?
17.	Mention the three periods of Mesozoic cra.	
18.	What are the applications of Karyotyping?	
-19.	Differentials in situ conservation from exsitu cor Section -	
	Answer the following :-	2 5 - 10
20.	Explain the different types of natural birth contr	ol measures (OR)
	Write down the applications of DNA fingerprinti	ng technology
21.	labulate the interactions between two species pe	opulations with examples (OR)
2	Describe the various stages of Sewage treatment	nt.
		RAY IN PARTITION DO S

Rampet - DISE

FIRST REVISION TEST - 2023 R

Standard - XII

Marks: 70 BIOLOGY Time: 3.00 hrs MARKS: 35 **BIO-BOTANY** Section - A 8×1=8 I. Choose the correct answer:-1) First cell of male gametophyte in angiosperm is a) Primary endosperm nucleus b) nucleus d) microspore c) megaspore 2) Fruitcolour in squash is an example of b) complementary genes a) inhibitory genes d) recessive epistasis c) dominant epistasis 3) Changing the codon AGC to AGA represents this type of mutation. d) Missense c) Nonsense a) deletion b) Frameshift 4) Which of the following one is used as a biosensor. b) Vector c) bioreactor d) Electrophoresis a) Electroporation 5) The prevention of large scale loss of biological interity d) Biopatent c) Bioethics b) Biosafety a) Biofuel 6) Sticky gends of Boerhaavia and cleome support d) Anemochory b) Autochory c) Zoochory a) Hydrochory 7) Which of the following is not a sedimentary cycle. c) Phosphorus d) Nitrogen b) Sulphur a) Calcium 8) The plants which are grown in Silivpasture system are b) Clitoria and begonia a) Teak & Sandal d) Sesbania and Acacia c) Solenum and Crotalaria Section - B II. Answer any four questions:-9) What is heterois? 10) Which is called as King of bitters? 11) What is endothelium? 12) What is meant by Cytoplasmic inheritance? 13) What is genemapping? Mention its uses. 14) What do you know about the word PBR 322. Section - C III. Answer any three questions. (Q.No.19 compulsory):-15) Give an account on Cryopreservation? 16) What is Vivipary? Name a plant group which exhibit Vivipary. 17) Construct the Food chain with the following data:-Hawk, Plants, Frog, Snake, Grasshopper 18) Explain Carbon Sequestration (CCS) 19) Differentiate Primary introduction from Secondary introduction. Section - D 2×5=10 IV. Answer the following questions:-20) With suitable diagram explain the structure of Ovule. [or] Explain dominant epistasis with an example. 21) Eneumurate the anatomical adaptations of xerophytes. Generally human activities are against to the ecosystem. Whereas you a student. How will you help to protect the ecosystem.

XII BIOLOGY MARKS: 35 R **BIO-ZOOLOGY** 8×1=8 i) Answer all the questions. ii) Choose the most appropriate answer from the Section - I given four alternatives and write the option code and the corresponding answer: 1) Which one of the following are at high risk extinction due to habitat destruction d) Echinoderms c) Mammals b) Birds a) Amphibians 2) Why Saccharomyes cerevisiae is more suitable for production of recombinant interferon than E.coli? a) E.coli does not possess the machinery for glycosylation of proteins b) E.coli cannot be used in bio fermentor c) E coli does not have suitable plasmic for the production of proteins d) E.coli is not easily available for the production of proteins. 3) ELISA is mainly used for a) Selecting animals having desired traits b) Detection of mutations d) Selecting plants having desired traits c) Detection of pathogens 4) The mature sperms are stored in the _ b) Seminiferous tubules a) Epididymis d) Vas deferens c) Seminal vesicle 5) A mRNA molecule is produced by c) Translation d) Transcription a) Duplication b) Replication 6) Which period was called "Age of fishes"? c) Ordovician d) Triassic b) Permian a) Devonian 7) Meselson and Stahl's experiment proved b) Transformation a) Transduction c) DNA is the genetic material d) Semi - conservative nature of DNA Replication 8) Competition between species leads to c) Symbiosis a) Amensalism b) Extinction d) Mutation Section - B II. Note: Answer any four of the following questions:- $4 \times 2 = 8$ 9) What is Surrogacy? 10) Write the cause of Down's Syndrome. 11) Who disproved Lamarck's theory of acquired characters? How? 12) Write any two differences between active and passive immunity. 13) Which is refferred to as Industrial alcohol? Why? 14) What does gene therapy mean? Section - C III. Note: Answer any three of the following questions. Question number 19 is compulsory:-15) What is Aminocentesis? Why a statutory ban is imposed on this technique? 16) State the name of an immunosuppressant used in organ transplantation is produced from the fungus Trichoderma polysporum and state its uses. 17) Differentiate natality from Mortality? 18) Write about gene banks. 19) In the XY chromosomal system sex determination, males have only one X. Chromosome, whereas female have two, How does the organism compensate for this dosage differences between the sexes? Section - D IV. Note: Answer the following questions:-2×5=10 20) a) Explain the structure of Human Ovum with a neat labelled diagram. [or] b) Write the salient features Human Genome Project.

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b) Write about the effects of chemicals used in the field of Agriculture.

21) a) Explain the structure of Immunoglobulin with suitable diagram.

Tsi12Bio

Tenkasi District Common Examinations First Revision Test - January 2023



TENKASI

Standard 12

Time Allowed: 3.00 Hours BIOLOGY Maximum Marks: 70

BIO-BOTANY

Marks: 35 8×1=8

Choose the correct answer:

1) Solidifying agent used in plant tissue culture is

a) Nicotinic acid b) Cobaltous chloride c) EDTA d) Agar

2) In which technique, Ethidium Bromide is used?

a) Southern blotting techniques
b) Western blotting techniques
c) Polymerase chain reaction
d) Agrose gel electroporosis

3) If haploid number in a cell is 18. The double monosomic and trisomic number will be

a) 35 and 37 b) 34 and 35

c) 37 and 35

4) Match the following:

External fertilization

i) Pollen grain

II. Androecium - ii) Antherwall

III. Male gametophyte iii) Algae IV. Primary parietal layer - iv) Stamens

a) I-iv; II-i; III-ii; IV-ii b) I-iii; II-iv; III-i; IV-ii
c) I-iii; II-iv; III-ii; IV-i d) I-iii; II-i; III-iv; IV-ii

5) Assertion: Turmeric fights various kinds of cancer.

Reason : Curcumin is an anti-oxidant present in turmeric.

a) Assertion is correct; Reason is wrong.

b) Assertion is wrong; Reason is correct.

c) Both are correct.

d) Both are wrong.

6) The ozone layer of troposphere is called

a) Middle ozone b) Ozone shield c) Bad ozone d) Good ozone

7) From the following which one is the column of sterile tissue surrounded by the anther lobe. matter to see the man are

a) Periplasmodium b) Pollen chamber c) Connective tissue d) Tapetum

8) The group of degradable biopolymers are

a) Cry IAC and DMH - II

b) PHAs and PHB

c) GFP and PGA

d) DMH and HT

Answer any four of the following:

9) Write short note on Pollen kitt.

10) What are multiple alleles?

11) Name the enzymes involved in genetic engineering.

12) What is pseudocereal? Give an example.

Define Food Web.

14) Define Habitat.

III. Answer any three of the following:

Q.No. 19 is compulsory.

15) Give an account on Cryopreservation.

16) What is Albedo effect? Write their effects.

17) Write a note on heterosis.

18) What is Energy flow? >

19) Write a short note on pBR322 plasmid. IV. Answer all the following:

20) a) With a suitable diagram, explain the structure of an ovule. (OR)

What is gene mapping? Write its uses.

21) a) How will you protect ecosystem? b) Enumerate the anatomical adaptations of xerophytes.

(OR)

		BIO-ZOOLOGY Section - A	Marks: 35
I.	An	swer all questions:	8×1=8
- 6	1) Which is incorrectly matched?	
		a) Monocystis - Isogamy	THE STATE OF
21	34	b) Protozoa - Merogamy c) Aphis - Paedogamy	
3.		1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	75. 74
	2	d) Trichonympha - Hologamy	
	= *	Name the proteolytic enzyme present in the spermatid a) Testosterone b) Hyaluronidase c) Hyaluronic acid	4) 6
	3)	Medical termination is extremely safe up to	a) Axoneme
			d) 20 weeks
	4)	Patau's syndrome is due	u) 20 weeks
2	15.0	a) 21 Trisomy b) 18 Trisomy c) 13 Trisomy	d) 14 Trisonry
-	5)	Find out correct matching sequence.	d) 14 maonly
		a) One gene - one enzyme hypothesis - 1 LIAA LIAC ar	nd UGA
		D) RNA world - 2 Francis Crief	
		c) Central dogma of protein synthesis - 3 Readle and T	Tatum :
		d) Non sense codon - 4. Walter Gilber	6 /
	C \	a) 3, 4, 2, 1 b) 4, 3, 2, 1 c) 2, 4, 3, 1	d) 1, 2, 3, 4
	- 0)	Organs having different structural patters but	similar functions
	20	are termed as analogous structure and brings	about convergent
		Evolution.	
	100	and Australia Indisuplats	are the example
	P.	for Adaptive radiation and its similarity is referr	ed as Convergent
		Evolution.	nus - I
		a) Both 'A' and 'R' are true and 'R' is correct explanation fo	r 'A'.
		b) Both 'A' and 'R' are true but 'R' is not correct explanation c) 'A' true and 'R' false	n of 'A'.
100	7)	c) 'A' true and 'R' false. SMOG is derived from	true.
			The second secon
	8)	The relationship between shark and sucker fish is	d) Only 'A
35	-5	3) COMPOSition b) comments	
		Section - B	d) parasitism
п.	Ans	swer any four questions:	442-0
	9)	Write a note on colostrum.	4×2=8
	10)	Explain Intra - cytoplasmic sperm injection.	
	11)	Any two application of Karvotyping?	7.30
	12)	Name the four different types of malaria and causative age	nt.
Res	13)	what are neptens?	***** P
	14)	What is Acclimatisation?	16 (8) (8)
		Section - C	10 10 A
Ш,	Ans	wer any three questions. Q.No. 18 is compulsory:	3×3=9
	15)	What are the symptoms of Hirsutism?	N 1954
-	16)	What is meant by Heterogametic males?	
do	17)	Differenciate Connective link and Atavism?	1 m
Philip	18)	A child suffer from non functioning of 'T' - Lymphocytes canno	t elicit immunity
M53	100	against patriogers what is the name of the disease? How it	is corrected?
	19)	what are DNA vaccine?	
TV	J. Carre	Section - D	
	Ans	wer all the questions:	2×5=10
	20)	What are the major tasks carried out by the Reproducti	ve child health
Y.Y		programmer Explain parrier method of contraception.	
10		(OR)	Carrier Man
11		What is meant by Paleontology and explain a brief accoun	t about Human
78	241	evolution:	A POST OF THE PARTY OF THE PART
	21)	The of inflate inflation.	· Icamed
	120	(OR) 3n /Q	m mothe in se
	· Mil	Explain the following:	90
		TALIBRATION (A) HIA	TVI A 15



Virudhunagar District Common Examinations First Revision Test - January 2023

VIRUDHUNAGAR

Standard 12 BIOLOGY Time: 3.00 Hrs. Marks: 70 Candidate should answer Part - I (Bio-Botany) and Part - II (Bio-Zoology) Note: in separate answer - books. PART - I [BIO-BOTANY] Marks: 35 Section - I 8×1=8 Note: i) Answer all the questions. ii) Choose the most appropriate answer from the given four alternatives and write the option code and the corresponding answer. The genotype of a plant showing the dominant phenotype can be determined by a) Test cross b) Dihybrid cross c) Pedigree analysis d) Back cross The constant temperature in plant tissue culture is b) 25°C ± 5°C c) 25°C ± 2°C d) 27°C ± 3°C a) 27°C ± 2°C 3) Choose the correctly matched sequence: i) Green plants are dominant during early stages a) Primary succession b) Autotrophic succession ii) Developing in disturbed area iii) Developing in barren area Allogenic succession iv) Occurs as a result of abiotic factors d) Secondary succession a) a-iii, b-iv, c-i, d-ii b) a-iii, b-i, c-iv, d-ii c) a-iv, b-iii, c-ii, d-i d) a-iv, b-i, c-ii, d-iii Changing the codon AGC to AGA represents b) frame shift mutation a) missense mutation d) non-sense mutation c) deletion mutation 5) Choose correctly matched pair: Lawsonia inermis a) Dye Hevea brasiliensis b) Pulp Cyperus papyrus c) Timber

- d) Rubber
- Shorea robusta
- Importing better verieties and plants from outside and acclamatising them to local environment is called
 - a) heterosis
- b) introduction
- c) cloning
- d) selection

7) Choose the wrong statements:

- Gladiolus is a indicator for nitrate.
- The endemic center for Hardwickia binata is Southern Western Ghats.
- iii) Prosopis juliflora is an invasive species native to Mexico and South America.
- iv) Appiko movement was started in Uttara Karnataka.
- a) ii, iii, iv
- b) i, iii
- c) i, iii, iv
- d) i, ii

WAY TO SUCCESS

V12Bio

8) Assertion

Agrobacterium tumifaciens is popular in genetic engineering

because this bacterium is associated with the root nodules

of all cereals and pulse crops.

Reason

A gene incorporated in the bacterial chromosomal genome get

automatically transferred to the plant with which associated.

- Both Assertion and Reason are true and Reason is the correct explanation for Assertion.
- b) Assertion is true but Reason is false.
- Both Assertion and Reason are false.
- d) Assertion is false but Reason is true.

Section - II

Answer any four of the following:

4×2=8

- Write a note on Heterostyly.
- 10) What is co-evolution?
- 11) Define : Explant
- 12) What is synapsis? What are its types?
- Give four examples of plants cultivated in commercial agroforestry.
- 14) Differentiate: Bio-medicines and Botanical medicines

Section - III

Answer any three of the following. Q.No. 19 is compulsory:

3×3=9

11:11

- Differentiate: Incomplete dominance and Codominance.
- 16) What is Albedo effect? Write its effect.
- Write the risk of genetically modified foods.
- 18) Explain the best suited type followed by plant breeders at present.
- 19) Photosynthesis follows the First law of thermodynamics Justify the statement.

Section - IV

Answer all the questions:

2×5=10

- 20) a) Give a concise account on steps involved in fertilization of an angiospermic plant. (OR)
 - b) Compare the various types of blotting technique.
- a) What is hybridization? Explain the steps involved in hybridization.

(OR)

b) How will you prepare an organic pesticide for your home garden with the vegetables available from your kitchen?

25

EDGEN - CD 7.06 MERC. I ANSWER ALL "HI QUESTIONS En compre une testicite con exceted ----- pro glarec I service or a lab evice con 2. 7. . 72 System of new determination recturs is by Treshills #1 1 13 F (#2) Vi = Propriets the Germalasm theory b) August Weismann c; lamans di Alfred Wallact Darwin 4)Chaose the correctly match pain Stimulant al/Amphetamines Narcotic D 150 Psychotropic c)Heroin Pain Glier d Benzodiaz**epi**ne 5)The Purpose of biological treatment of waste water is to c) Reduce Sedimentation b)Reduce BOD a) Increase 800 6)The first Clinical gene therapy was done for the treatment of d) SCID. c) Cystic Fibrosis b) Cancer Which one of the following are at high risk extinction due to habitat destruction d) Amphibians b) Birds c) Echinoderms a)Mammais 8)In the E-wasta generated by the mobile phones, which among the following metal is most abundant? c Palladium d) Gold biSilver a)copper Section *12 According tour of the following quest 9)What is Parthenogenesis ? Give two examples from animals. 10W/hat is Oriss-Cross inheritance ? 11)What are DNA Vaccines? 12 Listout the major gases seems to be found in the primitive earth? 13)Differentiate foeticide and Infanticide 14)What is Natality? Section - 3 (III) Answer any three of the following questions:- (Question number 17 is Compulsary) 3 X 3 = 9 15)What are applications of karyotyping? 16)Differentiate between somatic cell gene therapy and germine gene therapy. 17)Write notes on "Eutrophication". 18)Discuss briegly - "Ecosan". 19)Compare and Contract the Insite and exsite conservation. Section - 4 M Answer the following questions: 2 x 5 = 10 20 Give a Schematic representation of spermatogenesis in humans. (or) Listout the various causes for biodiversity losses. Explain the geneticbasis of ABO blood grouping man. Explain the structure of immunoglobulin.