Tsi12B	io Con	Tenkas	i District Examination -	2023	
O.C.			-35 -		
No.	-09-2023		ard 12		Marks: 70
Time: 3	.00 Hours		LOGY)	Maiks. 70
	BI		Y (Mark: 3 tion - I	55)	8x1=8
Choose	the best answer:	Sec	LIOII - I		
	First cell of the ma	le gametophy	te in Angiosperi	m	, La
-,	a) Microspore		b) Mega	aspore	
	c) Nucleus	*.	d) Prima	ary endosperi	n Nucleus.
2)	How many different l	inds of gamete v	vill be produced by	y plant having g	jenotype AABDCC d) 2
2)	a) 3 If haploid number in	b) 4	c) 9		
3)	a) 34 and 37	h) 34 and 35	c) 37 aı	nd 34	d) 17 and 19
4)	ECORI cleàres DNA		c) 37 ai	10 51	NAA.
· -	a) AGGGTT	b) GTATATC	c) GAA	ITC G	d) TATAGC
5)	Father of Tissue Cu		Haberlandt" be	elongs to	
· · · · · ·	a) Italy	b) India	c) Germ		i) Sweedon
6)	Which one is partia				
	a) Sandalum	b) Cuscutta	c) Viscu		l) Orabanche
7)	Which bacteria res	ponsible for ir	ducing crown o	call in several	olcot plants
	a) Rhizobium	b) Agrobacte	rium c) Pseud	nd Column II	represents the
8)	Column I represent		e son particles a	ina Columni 11	represents the
	type of soil compo Which of the follow	ing is correct	match for the	olumn I and	Column II
	Column I	ing is correct	column II	solulini i uliu	Column 22
	I. 0.2 to 2.00 mm		lit soil		
	II. Less than 0.002		Clayey soil		
	III. 0.002 - 0.02 m) Sandy soil		
	IV. 0.002 - 0:2 mm	- iv) Loamy soil		
		II (IV		•	
	a) (ii) (iii) (
		iii) (ii)			
		(iv)			
	d) None of the ab	Sect	ion - II		4x2=8
Answor	any 4 of the follow			•	-1XZ-0
	What is stomium?	ing question			
,	Define - Test cross				
	List out the types				1.
12)	What are the enzyr	nes required f	or genetic engi	neering.	
13)	Define - Totipoteno	cy .			
14)	What is phytoremed	diation?		•	
		Secti	on - III		3x3=9
Answer	any 3 of the follow	ing question	s: Q.No. 19 is	compulsory	·
15)	Differentiate - Graf	ing and Layer	ing.	vor	
16)	List out the any thr	ee importance	of Crossing of	vei.	
1/)	What is trichophyllo	us plants? Giv	e example.		
18)	Draw and label the	structure of p	DK 322.		
19)	List out the functio	ns of tapetur	on - IV		2x5=10
Answer	all the questions:	3600			
20)	a) Explain the stru	rture of Ovule	with diagram.		· · · /
			(OK)		(,) ()
	b) Write the applic	ations of Artif	icial seed.	3 · 16	
21)	a) Mention the app	lications of BI	otechnology.		
		· · · · · · · · · · · · · · · · · · ·	OK)		
	b) List out the mor	phological ada	ptations of Epi	iphytes?	
			. *.		

Kindly send me your study materials to padasalai.net@gmail.com

Tsi12Bio BIO - ZOOLOGY (Mark: 35) 8x1=8Section - I I. Choose the correct answer: 1) In which type of parthenogenesis are only males produced? a) Arrhenotoky b) Thelytoky c) Amphitoky d) Both a and b 2) The male sex hormone testosterone is secreted from a) Sertoli cells b) Leydig cells c) Epididymis d) Prostate gland 3) A contraceptive pill prevents ovulation by a) blocking fallopian tube b) Inhibiting release of FSH and LH c) Stimulating release of FSH and LH d) causing immediate degeneration of released ovum. 4) Phenylalanine hydroxylase gene is located on a) Chromosome 11 b) Chromosome 12 c) Chromosome 16 d) Chromosome 9 5) The total number of nitrogenous bases in human genome is estimated to be d) 3.1 billion a) 3.5 million b) 35000 c) 35 million 6) Which period was called "Age of fishes"? d) Ordovician a) Permian b) Triassic c) Devonian 7) Helper T cells release a chemical called d) Cytokine a) Histamine b) Serotonin c) Lysozyme 8) CO₂ is not released during b) Lactate Fermentation a) Alcoholic fermentation d) Aerobic respiration in plants c) Aerobic respiration in animals. Section - II 4x2 = 8II. Answer the followings each carries 2 marks: (only 4) 9) What is meant by somatogenic or blastogenic reproduction? SiVAKUMBR M, 10) What is Cryptorchism? 11) What is Mayer - Rokitansky syndrome? Soi Ram matric H33, Vallaron-622809. 12) What are holandric genes? 13) Why is tRNA called an adapter molecule? 14) Write the symptoms of Chikungunya. Tenkusi Dist 3x3=9 Section - III

III. Answer any 3 each carries 3 marks. (Q.No. 19 is compulsory)

15) Write the functions of reproductive system.

16) Write a note on Cryopreservation.

17) Differentiate - Template strand and coding strand.

18) Define Antibiotics, Zymology and Superbug.

19) What is haplodiploidy?

Section - IV

2x5=10

IV. Answer in detail each carries 5 marks.

20) Explain the various phases of the menstrual cycle.

(OR)

Explain how the colour blindness is transferred in the marriage between colour blind man and normal visioned woman?

21) Explain the origin and evolution of man.

(OR)

Mention any 5 bacterial diseases in human beings with the causative agents and symptoms.