	Mentors NEET U (PAPER WITH	IG-2024	CODE T2							
	HELD ON SUND	AY 05 <sup>™</sup> MAY 20	024							
	ВОТ	ANY								
	SECT	ION-A								
[Q.101]	Identify the set of correct statements:   A. The flowers of Vallisneria are colourful and produce necter.   B. The flower of waterlily are not pollinated by water.   C. In most of water-pollinated species, the pollen grains are protected from wetting.   D. Pollen grains of some hydrophytes are long and ribbon like.   E. In some hydrophytes, the pollen grains are carried passively inside water.   Choose the correct answer from the options given below:   [1] A, C, D and E only [2] B, C D and E only   [3] C, D and E only [4] A, B, C and D only   2									
[Q.102]	<ul><li>The type of conservation in which the shabitat and placed in special setting which called;</li><li>[1] Semi-conservative method</li><li>[3] in-situ conservation</li></ul>	ere they can be [2] S								
[ANS] [Q.103]	4 Inhibition of Succinic dehydrogenase enz	vme hv melonet	te is a classical example of							
[4.105]	<ul><li>[1] Competitive inhibition</li><li>[3] Cofactor inhibition</li><li>1</li></ul>	[2] E	eedback inhibition							



[2]			NEI	ET (UG)_2024_TEST_05.05.2024									
[Q.104]	Identify the part of the s germinates.	seed from the given fig	ure which is destined	to from root when the seed									
			$ \rightarrow A  \rightarrow B  \Rightarrow C  \Rightarrow D $										
	[1] C	[2] D	[3] A	[4] B									
[ANS]	2												
[Q.105]	Bulliform cells are resp	onsible for											
	[1] Increased photosynthesis in monocots.												
	[2] Providing large space for storage of sugars.												
	<ul><li>[3] Inward curling of le</li><li>[4] Protecting the plan</li></ul>												
[ANS]	<ul><li>[4] Protecting the plan</li><li>2</li></ul>	it nom san sness.											
[Q.106]		are required for the day	rk reaction of photosyr	othesis									
	Which of the following are required for the dark reaction of photosynthesis A. Light												
	B. Chlorophyll												
	C. CO <sub>2</sub>												
	D. ATP												
	E. NADPH												
	Choose the correct ans	swer from the options g	jiven below:										
	[1] C,D and E only	[2] D and E only	[3] A,B and C o	nly [4] B, C and D only									
[ANS]	2												
[Q.107]		cular cambium from ful	ly developed parenchy	ma cells is an example for									
	[1] Dedifferentiation												
	[2] Maturation												
	<ul><li>[3] Differentiation</li><li>[4] Redifferentiation</li></ul>												
[ANS]	1												
[Q.108]		NA molecules at a pa	rticular point called re	ecognition sequence and it									
	consists of:	•	-										
	[1] 4 bp	[2] 10 bp	[3] 8 bp	[4] 6 bp									
[ANS]	4												
L													

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NEET (UG)_	2024	_TEST_05.05.2024		[3]						
[Q.109]	Tropical regions show greatest level of species richness because									
	A. Tropical latitudes have remained relatively undisturbed for millions of years, hence									
	more time was available for species diversification.									
	B. Tropical environments are more seasonal.									
	D. Constant environments promote niche specialization.									
	E. Tropical environments are constant and predictable.									
	Choose the correct answer from the options given below:									
	[1]	A, B and E only [2] A, B and D only								
	[3]	A, C, D and E only	[4]	A and B only						
[ANS]	3									
[Q.110]	Wh	ich one of the following is not a criterion for cla	ssific	-						
	[1]	•	[2]	•						
	[3]	Morphology of mycelium	[4]	Mode of nutrition						
[ANS]	4									
[Q.111]	How many molecules of ATP and NADPH are required for every molecule of CO <sub>2</sub> fixed in Calvin cycle?									
	[1] 3 molecules of ATP and 3 molecules of NADPH									
	[2] 3 molecules of ATP and 2 molecules of NADPH									
	[3] 2 molecules of ATP and 3 molecules of NADPH									
	[4] 2 molecules of ATP and 2 molecules of NADPH									
[ANS]	2									
[Q.112]	Th	ese are regarded as major causes of biodivers	ity lo	ss:						
	Α.	Over exploitation								
	В.	Co-extinction								
	C.	Mutation								
	D.	Habitat loss and fragmentation								
	Ε.	Migration								
	Ch	oose the correct option:								
	[1]	A, B and E only	[2]	A, B and D only						
	[3]	A,C and D only	[4]	A, B, C and D only						
[ANS]	2									
[Q.113]	The	e capacity to generate a whole plant from any o	cell o	f the plant is called:						
	[1]	Differentiation	[2]	Somatic hybridization						
	[3]	Totipotency	[4]	Micropropagation						
[ANS]	3									

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[4]							NEE	T (UG)_2024_TEST_05.05.2024		
[Q.114]	The e	equation of Ver	hulst-Pearl	logistic	growth is	6				
	dN dt =	$=$ rN $\left[\frac{K-N}{K}\right]$ .								
	From	this equation,	R indicates	:						
	[1] (	Carrying capac	ity			[2] Population density				
	[3] I	ntrinsic rate of	natural incre	ease		[4]	Biotic potenti	al		
[ANS]	1									
[Q.115]	Spino	dle fibers attac	n to kinetoch	nores of	f chromos	somes	omes during			
		Anaphase	[2] Te	lophas	е	[3]	Prophase	[4] Metaphase		
[ANS]	4									
[Q.116]					-	n of ca	lyx, corolla an	d androecium with respect		
	to the	e ovary from th	e given figui	res (a) a	and (b)					
	[1]	(a) Perigynou	ıs; (b) Epigy	nous	[2]	(a) Pe	erigynous; (b)	perigynous		
	[3]	(a) Epigynou	s; (b) Hypog	ynous	[4]	(a) H	ypogynous; (b	) Epigynous		
[ANS]	4									
[Q.117]	Matc	h List-I with Lis	t-II							
		List-I		Lis	t-II					
	Α.	Rhizopus	I.	Mu	shroom					
	В.	Ustilago	11.		ut fungus					
	C.	Puccinia	111		ad mould					
	D.	Agaricus	١٧		st fungus					
		se the correct		n the op	•					
	[1]	A-III, B-II, C-I			[2]		B-III, C-II, D-I			
	[3]	A-III, B-II, C-I	V, D-I		[4]	A-I, E	8-111, C-11, D-1V			
[ANS]	3	lant black og	d color (PD	/Dh) ia	dominon	tovorv	white each cal	ar (bb) In order to find out		
[Q.118]			•					or (bb). In order to find out otype will you cross it ?		
	[1]	• •	[2] BB/E	•	[3]	BB	[4]	bb		
[ANS]	ני <u>ז</u> 4	20			[0]	55	נין	~~		
[,]	•									

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NEET (UG)_	_2024_	TEST_05.05.2024			[5]								
[Q.119]	A pi	nk flowered Snapdragon plant was crosse	ed with	na	red flowered shapdragon plant. What								
	type	of phenotype/s is/are expected in the prog	eny ?										
	[1]	Only pink flowered plants											
	[2]	Red, Pink as well as white flowered plan	ts										
	[3]	Only red flowered plants											
	[4]	Red flowered as well as pink flowered pla	Red flowered as well as pink flowered plants.										
[ANS]	4												
[Q.120]	Mate	ch List-I with List-II											
		List-I			List-II								
	Α.	Two or more alternative forms of a gene		Ι.	Back cross								
	В.	Cross of F <sub>1</sub> progeny with homozygous		II.	Ploidy								
		Recessive parent											
	C.	Cross of $F_1$ progeny with any of the pare	ents	.	Allele								
	D.	Number of chromosome sets in plant	IV.	Test cross									
		se the correct answer from the options given below :-											
	[1]	A-III, B-IV, C-I, D-II [2]		A-IV, B-III, C-II, D-I									
	[3]	A-I, B-II, C-III, D-IV [4]			I, C-III, D-IV								
[ANS]	1												
[Q.121]	Leci	thin, a small molecular weight organic com	pound	fou	and in living tissues, is an example of:								
	[1]	Glycerides	-										
	[2]	Carbohydrates											
	[3]	Amino acid											
	[4]	Phospholipids											
[ANS]	4												
[Q.122]		ch List I with List II											
		Clostridium butylicum	Ι.		Ethanol								
		Saccharomyces cerevisiae	11.		Streptokinase								
		Trichoderma polysporum			Butyric acid								
		Streptococcus sp.			Cyclosporin-A								
		ose the correct answer from the options giv											
		A-III, B-I, C-IV, D-II	-	-	A-IV, B-I, C-III, D-II								
LUNGI		A-III, B-I, C-II, D-IV	[4	JΑ	A-II, B-IV, C-III, D-I								
[ANS]	1												



[Q.123] In the	given figure, which	n component h	has thin outer wa	alls and highly thic	kened	inner walls?							
				A B									
				A B C D									
[1] A		[2] B	[3]	С	[4] C	)							
[ANS] 3													
	n of the following is	•	•										
[1] P	lisum	[2] Sesbania	ı [3]	Datura	[4] C	Cassia							
[ANS] 3	a animational consist in DN	IA is defined.		thus succisus in D									
	scription unit in DN ct to upstream and	-		three regions in D	NA an	d these are with							
-	nducer, Repressor,												
	romotor, Structural	Ū.											
	epressor, Operator	•											
		-	-										
[ANS] 2													
[Q.126] What	What is the fate of a piece of DNA carrying or gene of interest which is transferred into an												
Alien	organism?												
	he piece of DNA w rganism.	vould be able	to multiple itsel	f independently in	the p	rogeny cells the							
(B) It	may get integrated	d into the geno	ome of the recip	ient.									
(C) It	may multiply and b	be inherited al	ong would the h	ost DNA.									
	he alien piece of D		ntegral part of c	hromosome.									
. ,	show ability to rep												
	se the correct answ	-	<b>U</b>										
[1] B [ANS] 1	and C only	[2] A and E (	oniy [3]	A and B only	[4] L	D and E only							
	is used by garden	ners to prepar	e weed-from lay	wns. But no dama	ine is i	caused to grass							
as au					ige is t								
[1] d	oes not affect matu	ire monocotyle	edon or plants										
[2] ca	an help in cell divis	ion in grasses	, to produce gro	owth									
[3] p	romotes apical don	ninance											
[4] p	romotes abscissior	n of mature lea	aves only										
[ANS] 1													



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[7]

[Q.128] The cofactor of the enzyme carboxypeptidase is

- [1] Flavin
- [2] Haem
- [3] Zinc
- [4] Niacin

## **[ANS]** 3

[Q.129] The lactose present in the growth medium of bacteria is transported to the cell by action of

- [1] Permease
- [2] Polymerase
- [3] Beta-galactosidase
- [4] Acetylase

## **[ANS]** 3

- [Q.130] Which one of the following can be explained on the basis of Mendel's Law of Dominance?
  - (A) Out of one pair of factors one is dominant and the other is recessive
  - (B) Alleles do not show any expression and both the characters appear as such in  $\mathsf{F}_2$  generation
  - (C) Factors occur in pairs in normal diploid plants
  - (D) The discrete unit controlling a particular character is called factor
  - (E) The expression of only one of the parental characters is found in a monohybrid across Choose the correct answer from the options given below:
  - [1] B, C and D only
  - [2] A, B, C, D and E
  - [3] A, B and C only
  - [4] A, C, D and E only

## [ANS]

4

[Q.131] Given below are two statements:

Statement I : Bt toxins are insect group specific and coded by a gene cry IAc.

**Statement II :** Bt toxin exists as inactive protoxin in B. thuringiensis. However, after ingestion by the insect the inactive protoxin gets converted into active form due to acidic pH of the insect gut.

In the light of the above statements, choose the correct answer from the options given below:

- [1] Statement I is true but Statement II is false
- [2] Statement I is false but Statement II is true
- [3] Both Statement I and Statement II are true
- [4] Both Statement I and Statement II are false

## [ANS]

1



[Q.132]	Given b	below are two	state	ments :								
	Statem	ent I: Parenc	hym	a is living but collenchym	as is	s dead tissue						
	Statem	<b>ent II :</b> Gym	nosp	erms lack xylem vesse	els I	but presence	of xyle	m vessels is the				
	charact	eristic of angio	ospe	rms.								
	In the li	ght of the abo	ve st	atements, choose the co	rrec	t answer from	the opti	ons given below:				
	[1] Statement I is true but Statement II is false											
	[2] Statement I is false but Statement II is true											
	[3] Both Statement I and Statement II are true											
	[4] Bo	th Statement I	and	Statement II are false								
[ANS]	4											
[Q.133]	Given b	below are two	state	ments:								
	Statement I : Chromosomes become gradually visible under light microscope during											
	leptotene stage.											
	Statement II : The beginning of diplotene stage is recognized by dissolution of synaptonemal											
	complex.											
	In the li	ght of the abo	ve st	atements, choose the co	rrec	t answer from	the opti	ons given below:				
	[1] Sta	atement I is tru	e bu	t Statement II is false								
	[2] Sta	atement I is fal	se bi	ut Statement II is true								
	[3] Bo	th Statement I	and	Statement II are true								
	[4] Bo	th Statement I	and	Statement II are false								
[ANS]	3											
[Q.134]	Match I	List - I with Lis	t - 11									
		List - I		List - II								
	Α.	Nucleolus	I.	Site of formation of glycol	ipid							
	В.	Centriole	II.	Organization like the carty	whee	9						
	C.	Leucoplast	III.	Site for active ribosomal F	RNA	synthesis						
	D.	Golgi	IV.	For storing nutrients								
		apparatus										
	Choose	e the correct a	nswe	r from the options given	belo	W:						
		II, B-IV, C-II, D				A-I, B-II, C-I						
		II, B-II, C-IV, E	)-I		[4]	A-II, B-III, C-	·I, D-IV					
[ANS]	3		<u>.</u>									
[Q.135]		•		s was released by-								
	[1] FO	AM	[2	2] IUCN	[3]	GEAC	[4]	WWF				
[ANS]	2											
	-											

[8]



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[Q.136]	The	e DNA present in chloroplas	t is :								
	[1]	Linear, single stranded		[2]	Circular, single	stranded					
	[3]	Linear, double stranded		[4]	Circular, double	e stranded					
[ANS]	4										
			SE	ECTION-B							
[Q.137]	Wh	ich of the following are fuse	d in s	somatic hybridizatio	on involving two	varieties of plants?					
	[1]	Protoplasts		[2]	Pollens						
	[3]	Callus		[4]	Somatic embry	OS					
[ANS]	1										
[Q.138]	lde	ntify the correct description	abou	t the given figure :							
	[1] Cleistogamous flowers showing autogamy.										
	[2]	Compact inflorescence sho	•	0	my.						
		Wind pollinated plant inflor	-		-	sed stamens.					
		Water pollinated flowers sh		-	-						
[ANS]	3										
[Q.139]	-	raying sugarcane crop with gth of stem, thus, increasing		-	) plant growth re	egulators, increases the					
	[1]	Cytokinin [2] Al	oscis	ic acid [3]	Auxin	[4] Gibberellin					
[ANS]	4										
[Q.140]	Ма	tch List I with List II									
		List I	Lis	t II							
		Frederick Griffith	I.	Genetic code							
	В.	Francois Jacob & Jacque Monod	II.	Semi-conservativ	e mode of DNA	replication					
	C.	Har Gobind Khorana	III.	Transformation							
	D.	Meselson & Stahl	IV.	Lac operon							
	•										
		oose the correct answer fror	Choose the correct answer from the option given below : [1] A-II, B-III, C-IV, D-I [2] A-IV, B-I, C-II, D-III								
	Ch										
[ANS]	Ch [1]		[2]	A-IV, B-I, C-II, D-	111						



[Q.141] Match List I with List II List I List I A. GLUT-4 i. Hormone B. Insulin II.Enzyme C. Trypsin III. Intercellular ground substance D. Collagen IV. Enable glucose transport into cells Choose the correct answer from the options give below: [1] A-II, B-III, C-IV, D-I [2] A-III, B-IV, C-I, D-II [3] A-IV, B-I, C-II, D-III [4] A-I, B-II, C-III, D-IV [ANS] 3 [Q.142] Given below are two statements: **Statement I:** In  $C_3$  plants, some  $O_2$  binds RuBisCO, hence,  $CO_2$  fixation is decreased. Statement II: In C<sub>4</sub> plants, mesophyll cells show very little photorespiration while bundle sheath cells do not show photorespiration. In the light of the above statement choose the correct answer from the options given below: [1] Statement I is true but statement II is false [2] Statement I is false but Statement II is true [3] Both Statement I and statement II are true [4] Both statement I and Statement II are false [ANS] 1 [Q.143] Identify the step in tricarboxylic acid cycle, which doe not involve oxidation of substrate. [1] Succinyl-CoA $\rightarrow$ Succinic acid [2] Isocitrate  $\rightarrow \alpha$  -ketoglutaric acid [3] Malic acid  $\rightarrow$  Oxaloacetic acid [4] Succinic acid  $\rightarrow$  Malic acid [ANS] 1 [Q.144] Match List I with List II List I List II A. Citric acid I. Cytoplasm Cycle B. Glycolysis II. Mitochondrial matrix C. Electron transport system III. Intermembrane space of mitochondria D. Proton gradient Iv. Inner mitochondrial membrane Choose the correct answer from the options given below: [1] A-III, B-IV, C-I, D-II [2] A-IV, B-III, C-II, D-I [3] A-I, B-II, C-III, D-IV [4] A-II, B-I, C-IV, D-III

4

[ 10 ]



[Q.145]		•			-		he process of replication in E.Coli?			
		he DNA depende $" \rightarrow 5$ direction	nt E	DNA polyme	erase	catalyses	s polymerization in $5' \rightarrow 3'$ as well as			
			t DI	VA polymera	ise ca	talyses p	polymerization in $5' \rightarrow 3'$ direction.			
	[3] Tł	•					polymerisation in one direction that is			
	[4] Tł		nt R	NA polyme	rase (	catalyses	polymerization in one direction that is			
[ANS]	2									
[Q.146]	In an e	ecosystem if the N	et P	rimary Prod	uctivit	y (NPP)	of first trophic level is			
		(kcal m <sup>-2</sup> ) yr <sup>-1</sup> wh of the same ecosys			e GPI	P (Gross	Primary Productivity) of the third tropic			
		0x(kcalm <sup>-2</sup> )yr <sup>-1</sup>				[2]	$\frac{100x}{3x}$ (kcal m <sup>-2</sup> )yr <sup>-1</sup> x (kcal m <sup>-2</sup> )yr <sup>-1</sup>			
	[3] <del>x</del> 10	x 0(kcal m <sup>-2</sup> )yr <sup>-1</sup>				[4]	x (kcal m <sup>-2</sup> )yr <sup>-1</sup>			
[ANS]	4									
[Q.147]		h List I with List II								
		ist I	Lis			_				
	A. R		I. 	Twisted ae						
	B. Pe		II.	Perigynous	s flowe	er				
	C. C			Drupe						
	D. M	•		Marginal pl						
		se the correct ansv IV, B-III, C-II, D-I	veri	rom the opti	ions g					
		-II, B-IV, C-I, D-III					A-II, B-III, C-IV, D-I A-I, B-II, C-III, D-IV			
[ANS]	3					ניין				
[Q.148]	-	List I with List II								
	List I				List	. 11				
	A. R	obert May			Ι.	Species	s-Area relationship			
		lexander von Hum	bolo	lt	II.	•	erm ecosystem experiment using out			
	C. Pa	aul Ehrlich			III.	Global	species diversity at about 7 million			
	D. Da	avid Tilman			IV.	Rivet p	opper hypothesis			
	Choos	se the correct answ	ver f	from the opti	ions g	iven belo	w:			
	[1] A-	-I, B-III, C-II, D-IV				[2]	A-III, B-IV, C-II, D-I			
	[3] A-	-II, B-III, C-I, D-IV				[4]	A-III, B-I, C-IV, D-II			
[ANS]	4									



12]								NEET (U	G)_2024_T	EST_
[Q.149]	Ма	tch List I with List II								
		List I	Lis	st II						
	(Ту	pes of Stamens)	(E)	(ample)						
	Α.	Monoadelphous	I.	Citrus						
	В.	Diadelphous	II.	Pea						
	C.	Polyadelphous	III.	Lilly						
	D.	Epiphyllous	IV.	China-r	ose					
	Ch	oose the correct an	swer	from the	options g	jiven belo	w :			
	[1]	A-I, B-II, C-IV, D-II	I			[2]	A-III, B	-I, C-IV, E	D-II	
	[3]	A-IV, B-II, C-I, D-II	I			[4]	A-IV, B	-I, C-II, D	-111	
[ANS]	3									
[Q.150]	Rea	ad the following stat	temei	nts and c	hoose th	e set of c	orrect st	atements	i.	
	ln t	he members of Pha	eoph	yceae,						
	Α.	Asexual reproduction occurs usually by biflagellate zoospores.								
	В.	Sexual reproduction	on is	by oogan	nous met	hod only.				
	C.	Stored food is in the	ne for	m of carb	ohydrate	es which	is either	mannitol	or lamina	arin.
	D.	The major pigments found are chlorophyll a, c and carotenoids and xanthophyll								ıyll.

E. Vegetative cells have a cellulosic wall, usually covered on the outside by gelatinous coating of algin.

Choose the correct answer from the options given below:

[1] A, C, D and E only

- [2] A, B, C and E only
- [3] A, B, D and D only
- [ANS]

1

[4] B, C, D and E only

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