

FINAL NEET(UG)-2021 EXAMINATION

(Held On Sunday 12th SEPTEMBER, 2021)

BOTANY							TEST PAPER WITH ANSWER				
	Section-A	(Biol	ogv :	Botanv)			Choose the correct answer from the options giv				
101.	01. Inspite of interspecific competition in nature, which			below.			1 0				
	mechanism the		-				(a)	(b)	(c)	(d)	
	evolved for their	-	-		5		(1) (ii)	(iv)	(i)	(iii)	
	(1) Resource part			?) Competit	ive release		(2) (iv)	(iii)	(ii)	(i)	
	(3) Mutualism) Predatior			(3) (iii)	(i)	(iv)	(ii)	
ns.	ans. (1)			(4) (ii)	(i)	(iv)	(iii)				
102. Match List - I with List - II .				Ans.							
List -I List - II		105.	The term	used for tra	ansfer of pol	len grains from					
	Colle with active coll			anthers o	of one plant t	o stigma of a	a different plar				
(a)	division capacity	(1) Wascular fissues			which, du	ring pollinatio	on, brings ger	netically differer			
	Tissue having all co	ells		Meristema	otic		types of 1	pollen grains	s to stigma, i	s :	
	similar in structure	and	(ii)	tissue			(1) Xenoc			onogamy	
	function						(3) Chasn		(4) Cleis		
1011	Tissue having diffe types of cells	rent	(iii)	Sclereids		Ans.			(1) 01010	10 301119	
	Dead cells with hig	hly	(iv)	Simple tis	sue		• •	the followin	na stages of r	neiosis involve	
	thickened walls an			100.	Which of the following stages of meiosis invo division of centromere ?						
narrow lumen						aphase II					
Select the correct answer from the options g		tions given		(1) Metap			-				
	below.				(B		(3) Anapł	hase II	(4) Teloj	pnase II	
	(a) (b)		(C		(d)	Ans.					
	(1) (ii) (iv) (iv)		(i)		(iii) (i)	107.				ct sequence of	
	(2) (iv) (iii)		(ii)		(i) (i)		steps in a	a PCR (Polyr	nerase Chair	n Reaction) ?	
	(3) (i) (ii) (4) (iii) (ii)		(ii (iv		(i∨) (i)		(1) Denat	uration, Ann	nealing, Exter	nsion	
\ns.			(1)	/)	(i)		(2) Denat	uration, Exte	ension, Anne	aling	
	During the purifi	catio	a pro	cass for ra	combinant		(3) Extension, Denaturation, Annealing				
	DNA technolog						(4) Annealing, Denaturation, Extension				
	precipitates out:	y, uu	unio			Ans.	s. (1)				
	(1) RNA		(2) DNA		108.	Gemmae	are present	in :		
	(3) Histones) Polysacch	narides		(1) Mosse	S			
Ans.			(-	, 1 01900001			(2) Pteridophytes				
	Match List - I wi	th Li s	st - II	•				Gymnosper	ms		
Г	List -I			List - II			(4) Some Liverworts				
ļ,		(1)		attraction	in	Ans.		LIVEIWOILS			
(ā	a) Cohesion	(i)		phase				ation -f	at a a k 41	unanta francis	
				al attractio	n	109.		_		rents, formatio	
(ł	o) Adhesion	(ii)		ng water						n be understoo	
⊢			mole Wate		uid			iagram calle			
(0	c) Surface tension	(iii)	phase	er loss in liq	ulu		(1) Bullet	square	(2) Punc	ch square	
ļ,		<i>(</i> .)		ction towar	ds		(3) Punne	ett square	(4) Net	square	
(0	d) Guttation	(iv)		surfaces		Ans.	(3)				

Ans. (3)

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Fina	NEET(UG)-2021					ALLE S SUCCON
110.	The factor that leads to Founder effect in a	117.	The site of	perce	ption of light	in plants during
	population is:		photoperiod	ism is	:	
	(1) Natural selection		(1) Shoot ap	ex	(2) Ste	em
	(2) Genetic recombination		(3) Axillary b		(4) Le	
	(3) Mutation	Ans.	• •		(-) =-	
	(4) Genetic drift		. ,	araatt	ing involving g	ene amplification
Ans.	(4)	110.				
111.	Genera like Selaginella and Salvinia produce two		•		naiviauais tissu	e to treat disease,
	kinds of spores. Such plants are known as :		it is known a			
	(1) Homosorus (2) Heterosorus		(1) Biopiracy			ne therapy
	(3) Homosporous (4) Heterosporous		(3) Molecular	r diagr	nosis (4) Sat	ety testing
Ans.		Ans.	(2)			
112.	Plants follow different pathways in response to	119.	Which of the	follov	ving plants is r	nonoecious ?
	environment or phases of life to form different kinds		(1) Carica pa	apaya		
	of structures. This ability is called :		(2) Chara			
	(1) Elasticity (2) Flexibility		(3) Marchani	tia pol	vmorpha	
	(3) Plasticity (4) Maturity		(4) Cycas cir			
Ans.		Ans.		cii iuno		
113.	Which of the following are not secondary			£ - 11		
	metabolites in plants ?	120.				pplication of PCR
	(1) Morphine, codeine (2) Amino acids, glucose		(Polymerase			
	(3) Vinblastin, curcumin (4) Rubber, gums		(1) Molecular	r diagr	nosis	
Ans.	.,		(2) Gene am	-		
114.	Complete the flow chart on central dogma.		(3) Purification	on of i	solated protei	n
	(a) $(DNA \xrightarrow{(b)} mRNA \xrightarrow{(c)} (d)$		(4) Detection	n of ge	ne mutation	
		Ans.	(3)			
	(1) (a)-Replication; (b)-Transcription;	121.	Match List -	I with	List - II.	
	(c)-Transduction; (d)-Protein					
	(2) (a)-Translation; (b)-Replication;			r		
	(c)-Transcription; (d)-Transduction		List -I			List -II
	(3) (a)-Replication; (b)-Transcription;	(a)	Cristae	(i)	Primary const	riction in
	(c)-Translation; (d)-Protein				<u>chromosome</u> Disc-shaped s	acs in Golgi
	(4) (a)-Transduction; (b)-Translation;	(b)	Thylakoids	(ii)	apparatus	
A == a	(c)-Replication; (d)-Protein	(c)	Centromere	(iii)	Infoldings in m	nitochondria
Ans.	(3) When the centromere is situated in the middle of	(d)	Cisternae	(iv)	Flattened mer	
115.		(4)	Cloternae	(11)	sacs in stroma	of plastids
	two equal arms of chromosomes, the chromosome is referred as :					
			Choose the c	orrec	t answer from	the options given
	(1) Metacentric (2) Telocentric (2) Sub-metacentric (4) A sub-sector		below.			
Ana	(3) Sub-metacentric (4) Acrocentric		(a)	(b)	(c)	(d)
Ans.			(1) (iv)	(iii)	(ii)	(i)
110.	DNA strands on a gel stained with ethidium bromide		(2) (i)	(iv)	(iii)	(ii)
	when viewed under UV radiation, appear as : (1) Yellow bands (2) Bright orange bands		(3) (iii)	(iv)	(i)	(ii)
	(1) reliow bands (2) Bright orange bands (3) Dark red bands (4) Bright blue bands		(4) (ii)	(iii)	(iv)	(i)

Ans. (3)

(3) Dark red bands (4) Bright blue bands

Ans. (2)

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path to success	CAREER INSTITUTE KOTA (RAJASTHAN)				1					
122.	-		s are found ir		128.	The plant	hormone use	ed to des	troy we	eds in a fiel
	(1) China	rose	(2) Citru	IS		is :				
	(3) Pea		(4) Chin	a rose and citrus		(1) IAA	(2) NAA	(3) 2	2,4-D	(4) IBA
Ans.	(3)				Ans.	(3)				
123.	. Match List -I with List - II.				129.	The amou	nt of nutrien	ts, such a	as carbo	on, nitroger
ſ	List -I List - II (a) Protoplast fusion (i) Totipotency			phosphor	us and calciu	ım prese	ent in th	e soil at an		
				given time	e, is referred	as :				
-		sue culture				(1) Climax		(2) (Climax o	community
	(c) Merister		(iii) Somac			(3) Standii	ng state	(4) 5	Standing	g crop
L	(d) Micropropagation (iv) Virus free plants Choose tho correct answer from the options given		Ans.	(3)						
	below.	o correct a		le options given	130.	Mutations	in plant cel	ls can be	e induce	ed by:
		(b)		(4)		(1) Kinetin		(2) I	nfrared	rays
	(a)	(b)	(c)	(d)		(3) Gamm	a rays	(4) 2	Zeatin	
	(1) (iii)	(iv)	(ii) (i)	(i) (:::)	Ans.	(3)				
	(2) (ii)	(i) (i-)	(iv)	(iii) (::)	131.	Which of	he following	stateme	ents is r	ot correct
	(3) (iii) (4) (ia)	(iv)	(i)	(ii)		(1) Pyram	id of biomas	s in sea i	s genera	ally inverted
A	(4) (i∨)	(iii)	(ii)	(i)		(2) Pyram	id of biomas	s in sea	is gener	ally uprigh
Ans.	.,					(3) Pyram	id of energy	is alwa	ys uprig	ght.
124.			represented a	15 :		(4) Pyram	id of numbe	rs in a g	rassland	d ecosyster
		s A (-); Spa				is upri	ght.			
		s A (+); Sp			Ans.	(2)				
		s A (-); Spa			132.	32. In the equation $GPP-R = NPP$				
A		s A (+); Sp	ecies d (U)			R represents :				
Ans.		ha fallowin	a is on incon	next statement?		(1) Radian	t energy	(2) F	Retarda	tion factor
125.			-	rect statement?		(3) Environ	nment factor	· (4) F	Respirat	ion losses
				nts possess a	Ans.	(4)				
			lieus and us	ual cytoplasmic	133.	Which of t	he following	algae p	roduce	Carrageen
	organ		as out hath in	mlanet and ansimal		(1) Green	algae	(2) I	Brown a	algae
	(2) Microo cells.	oules are pro	esent ootn in	plant and animal		(3) Red al	gae	(4) l	Blue-gre	een algae
				homi ou hoturo on	Ans.	(3)				
	· · · -		-	barrier between	134.	The first st	able product	of CO ₂	fixatior	ı in sorghur
		cytoplasm.		nucleus and that		is :				
				((1) Pyruvia	c acid	(2) (Oxaload	etic acid
				for proteins and ctions between		(3) Succin	ic acid	(4) F	hospho	oglyceric aci
		is and cytor		chons between	Ans.	(2)				
Ans.		is and cytop	Jiasin.		135.	Match Lis	t -I with Lis	t - II.		
		ngiocnorm	ombruo con	at maturity is :	Г	Lis	t-I	l	List - II	
120.		eate and 7-	-		(á	a) Lentice	s (i) Phe	llogen	
		eate and 7-			((b) Cork ca				position
		eate and 0-			(0					of gases
		eate and 7-			((d) Cork			lloderm	
Ans.		eale anu 0-	Celleu			below.	e correct ar	iswei IIC	лп ше О	puons give
		he followin	a algae cont	ains mannitol as		(a)	(b)	(c)		(d)
121.		od material		ants marmitor dS		(1) (iv)	(i)	(iii)		(ii)
				oilaria		(1) (iv) (2) (iii)	(i)	(iv)		(ii)
	(1) <i>Ectoca</i>		(2) Gra			(3) (ii)	(iii)	(iv)		(i)
_	(3) Volvox (1)		(4) <i>Ulot</i>	ΠΠΧ		(4) (iv)	(ii)	(i)		(iii)
Δ										

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Section-B (Biology : Botany)

136. Which of the following statements is **incorrect**?

- (1) During aerobic respiration, role of oxygen is limited to the terminal stage.
- (2) In ETC (Electron Transport Chain), one molecule of NADH + H^+ gives rise to 2 ATP molecules, and one FADH₂ gives rise to 3 ATP molecules.
- (3) ATP is synthesized through complex V.
- (4) Oxidation-reduction reactions produce proton gradient in respiration.

Ans. (2)

137. Match Column -I with Column - II. Column -1 Column - II

- (a) $\% \overrightarrow{Q} K_{(5)}C_{1+2+(2)}A_{(9)+1}G_1$ (i) Brassicacease (b) $\oplus \overrightarrow{Q} K_{(5)}\widehat{C}_{(5)}A_5G_2$ (ii) Liliaceae (c) $\oplus \overrightarrow{Q} \widehat{P}_{(3+3)}A_{3+3}G_{(3)}$ (iii) Fabaceae

- (d) $\oplus \vec{Q}^{T} K_{2+2} C_{4} A_{2-4} \underline{G}_{(2)}$ (iv) Solanaceae

Select the **correct** answer from the options given below.

	(a)	(b)	(c)	(d)
(1)	(iii)	(iv)	(ii)	(i)
(2)	(i)	(ii)	(iii)	(iv)
(3)	(ii)	(iii)	(iv)	(i)
(4)	(iv)	(ii)	(i)	(iii)

Ans. (1)

^{138.} Match List -I with List - II.

	List -I		List -II		
(a)	S phase	(i)	Proteins are synthesized		
(b)	G ₂ phase	(ii)	Inactive phase		
(c)	Quiescent stage	(iii)	Interval between mitosis and initiation of DNA replication		
(d)	G1 phase	(iv)	DNA replication		
Choose the correct answer from the options given					
be	elow.				

		(a)	(b)	(c)	(d)
	(1)	(iii)	(ii)	(i)	(iv)
	(2)	(iv)	(ii)	(iii)	(i)
	(3)	(iv)	(i)	(ii)	(iii)
6.	(4) (3)	(ii)	(iv)	(iii)	(i)

139. Plasmid pBR322 has PstI restriction enzyme site within gene amp^R that confers ampicillin resistance. If this enzyme is used for inserting a gene for β-galactoside production and the recombinant plasmid is inserted in an *E.coli* strain

- (1) it will not be able to confer ampicillin resistance to the host cell.
- (2) the transformed cells will have the ability to resist ampicillin as well as produce β -galactoside.
- (3) it will lead to lysis of host cell.
- (4) it will be able to produce a novel protein with dual ability.

Ans. (1)

140. Identify the **correct** statement.

- (1) In capping, methyl guanosine triphosphate is added to the 3' end of hnRNA.
- (2) RNA polymerase binds with Rho factor to terminate the process of transcription in bacteria.
- (3) The coding strand in a transcription unit is copied to an mRNA.
- (4) Split gene arrangement is characteristic of prokaryotes.

Ans. (2)

- **141.** Now a days it is possible to detect the mutated gene causing cancer by allowing radioactive probe to hybridise its complimentary DNA in a clone of cells, followed by its detection using autoradiography because:
 - (1) mutated gene partially appears on a photographic film.
 - (2) mutated gene completely and clearly appears on a photographic film.
 - (3) mutated gene does not appear on a photographic film as the probe has no complimentarity with it.
 - (4) mutated gene does not appear on photographic film as the probe has complimentarity with it.

Ans. (3)

Ans

CODE - M2

path to success	KOTA (RAJASTHAN)						
142.	In the exponential growth equation	147.	Which	of the follow	ving st	tatemer	nts is correct ?
	$N_t = N_0 e^{rt}$, e represents:		(1) Fu	sion of two d	cells is	called	Karyogamy.
	(1) The base of number logarithms	(2) Fusion of protoplasms between two motile of					
	(2) The base of exponential logarithms			-	-		l plasmogamy.
	(3) The base of natural logarithms			-			living plants ar
	(4) The base of geometric logarithms			-			nong plants an
Ans.	(3)			led saprophy	•		
143.	Select the correct pair.		(4) So	me of the o	organis	sms car	n fix atmospheri
	(1) Large colorless empty – Subsidiary cells		nit	rogen in spe	cialize	d cells c	alled sheath cells
	cells in the epidermis	Ans.	(2)				
	of grass leaves	148.	Match	List - I with	List	- II.	
	(2) In dicot leaves, vascular – Conjunctive	Г		List -I			List - II
	bundles are surrounded tissue		(a) Pro			(i) C =	C double bonds
	by large thick-walled			aturated fatty	acid		osphodiester bonds
	cells	-		eleic acid vsaccharide			cosidic bonds
	(3) Cells of medullary rays – Interfascicular	L					otide bonds
	that form part of cambium			e îne correc	t answ	ver from	the options give
	cambial ring		below.				(1)
	(4) Loose parenchyma cells – Spongy		(a)			(c)	(d)
	rupturing the epidermis parenchyma		(1) (iv)			(ii)	(iii) (::)
			(2) (i)	(iv)		(iii)	(ii)
	and forming a lens-		(0) (1)				
	and forming a lens- shaped opening in bark		(3) (ii)	(i)		(iv)	(iii)
Ans.	shaped opening in bark		(4) (iv)			(i∨) (i)	(iii) (ii)
	shaped opening in bark (3)	Ans.	(4) (i∨) (1)	(iii)		(i)	(ii)
	shaped opening in bark (3) In some members of which of the following pairs of		(4) (iv) (1) DNA f	(iii) ingerprinting		(i) ves iden	(ii) tifying difference
	shaped opening in bark (3) In some members of which of the following pairs of families, pollen grains retain their viability for months		(4) (iv) (1) DNA fi in som	(iii) ingerprinting		(i) ves iden	(ii)
	shaped opening in bark (3) In some members of which of the following pairs of families, pollen grains retain their viability for months after release ?		(4) (iv) (1) DNA f in som as :	(iii) ingerprinting le specific reg		(i) ves iden in DNA	(ii) tifying difference A sequence, called
	shaped opening in bark (3) In some members of which of the following pairs of families, pollen grains retain their viability for months after release ? (1) Poaceae ; Rosaceae		(4) (iv) (1) DNA f: in som as : (1) Sat	(iii) ingerprinting le specific reg ellite DNA	gions	(i) ves iden in DNA (2) Re	(ii) tifying difference sequence, called petitive DNA
	shaped opening in bark (3) In some members of which of the following pairs of families, pollen grains retain their viability for months after release ? (1) Poaceae ; Rosaceae (2) Poaceae; Leguminosae	149.	(4) (iv) (1) DNA f in som as : (1) Sat (3) Sin	(iii) ingerprinting le specific reg	gions	(i) ves iden in DNA (2) Re	(ii) tifying difference A sequence, called
	shaped opening in bark (3) In some members of which of the following pairs of families, pollen grains retain their viability for months after release ? (1) Poaceae ; Rosaceae (2) Poaceae; Leguminosae (3) Poaceae; Solanaceae	149. Ans.	(4) (iv) (1) DNA fi in som as : (1) Sat (3) Sin (2)	(iii) ingerprinting le specific reg ellite DNA gle nucleotid	gions i les	(i) ves iden in DNA (2) Re (4) Po	(ii) tifying difference sequence, called epetitive DNA lymorphic DNA
144.	shaped opening in bark (3) In some members of which of the following pairs of families, pollen grains retain their viability for months after release ? (1) Poaceae ; Rosaceae (2) Poaceae; Leguminosae (3) Poaceae; Solanaceae (4) Rosaceae ; Leguminosae	149. Ans.	(4) (iv) (1) DNA fi in som as : (1) Sat (3) Sin (2)	(iii) ingerprinting le specific reg ellite DNA	gions i les	(i) ves iden in DNA (2) Re (4) Po	(ii) tifying difference sequence, called epetitive DNA lymorphic DNA
144. Ans.	shaped opening in bark (3) In some members of which of the following pairs of families, pollen grains retain their viability for months after release ? (1) Poaceae ; Rosaceae (2) Poaceae; Leguminosae (3) Poaceae; Solanaceae (4) Rosaceae ; Leguminosae (4)	149. Ans.	(4) (iv) (1) DNA f in som as : (1) Sat (3) Sin (2) Match	(iii) ingerprinting le specific reg ellite DNA gle nucleotid	gions i les	(i) ves iden in DNA (2) Re (2) Po Colum	(ii) tifying difference sequence, called epetitive DNA lymorphic DNA
144. Ans.	shaped opening in bark (3) In some members of which of the following pairs of families, pollen grains retain their viability for months after release ? (1) Poaceae ; Rosaceae (2) Poaceae; Leguminosae (3) Poaceae; Solanaceae (4) Rosaceae ; Leguminosae (4) What is the role of RNA polymerase III in the process	149. Ans.	(4) (iv) (1) DNA f in som as : (1) Sat (3) Sin (2) Match	(iii) ingerprinting e specific reg ellite DNA gle nucleotid Column - I	gions i les	(i) ves iden in DNA (2) Re (4) Po Colum	(ii) tifying difference sequence, called epetitive DNA lymorphic DNA n - II.
144. Ans.	shaped opening in bark (3) In some members of which of the following pairs of families, pollen grains retain their viability for months after release ? (1) Poaceae ; Rosaceae (2) Poaceae; Leguminosae (3) Poaceae; Solanaceae (4) Rosaceae ; Leguminosae (4) What is the role of RNA polymerase III in the process of transcription in eukaryotes ?	149. Ans.	(4) (iv) (1) DNA f in som as : (1) Sat (3) Sin (2) Match	(iii) ingerprinting e specific reg ellite DNA gle nucleotid Column - I	gions i les with ((i) ves iden in DNA (2) Re (4) Po Colum Deniti Conve	(ii) tifying difference a sequence, called epetitive DNA lymorphic DNA n - II. Column - II rification ersion of
144. Ans.	shaped opening in bark (3) In some members of which of the following pairs of families, pollen grains retain their viability for months after release ? (1) Poaceae ; Rosaceae (2) Poaceae; Leguminosae (3) Poaceae; Solanaceae (4) Rosaceae ; Leguminosae (4) What is the role of RNA polymerase III in the process of transcription in eukaryotes ? (1) Transcribes rRNAs (28S, 18S and 5.8S)	149. Ans.	(4) (iv) (1) DNA fi in som as : (1) Sat (3) Sin (2) Match	(iii) ingerprinting le specific reg ellite DNA gle nucleotid Column - I <u>Nitrococcus</u> <u>Rhizobium</u>	gions i les with ((i)	(i) ves iden in DNA (2) Re (4) Po Colum Deniti Conve ammo	(ii) tifying difference a sequence, called epetitive DNA lymorphic DNA n - II. Column - II rification ersion of onia to nitrite
144. Ans.	shaped opening in bark (3) In some members of which of the following pairs of families, pollen grains retain their viability for months after release ? (1) Poaceae ; Rosaceae (2) Poaceae; Leguminosae (3) Poaceae; Solanaceae (4) Rosaceae ; Leguminosae (4) What is the role of RNA polymerase III in the process of transcription in eukaryotes ? (1) Transcribes rRNAs (28S, 18S and 5.8S) (2) Transcribes tRNA, 5s rRNA and snRNA	149. Ans.	(4) (iv) (1) DNA fi in som as : (1) Sat (3) Sin (2) Match	(iii) ingerprinting le specific reg ellite DNA gle nucleotid Column - I <u>Nitrococcus</u>	gions i les with ((i)	(i) ves iden in DNA (2) Re (4) Po Colum Conve ammo	(ii) tifying difference a sequence, called epetitive DNA lymorphic DNA n - II. Column - II rification ersion of onia to nitrite ersion of nitrite to
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