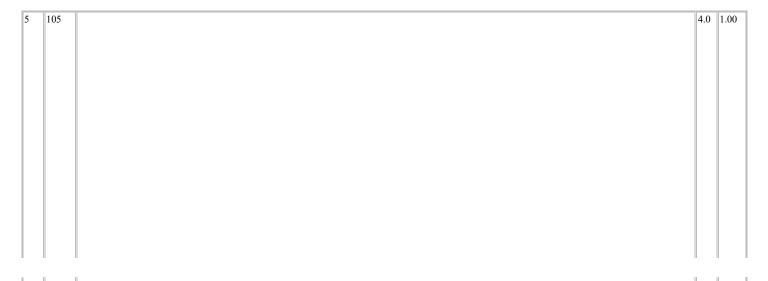
PREVIEW QUESTION BANK

Module Name : PLANT BIOTECHNOLOGY-ENG Exam Date : 14-Jul-2023 Batch : 10:00-12:00

Sr. No.		Question ID	Question Body and Alternatives Marks	Ne N	gative Iarks
Objec	tive Que	stion	, and the second	II.	
		1. Palmit 2. Erucic 3. Elaidic	of the following monounsaturated fatty acids is not an omega-9 (ω -9) fatty acid? pleic acid (C16:1, Δ^9) acid (C22:1, Δ^{13}) acid (C18:1, Δ^9) nic acid (C24:1, Δ^{15})	4.0	1.00
	tive Que			4.0	1.0
		A). Cysteine B). Phenylal C). Tyrosine D). Tryptopl	correct answer from the options given below: (A), (B). (D), (A). (B), (A).		

Obje	ctive Qu	nestion		
3	103		4.0	1.00
		Equal volumes of 0.1 M acetic acid and 0.1 M sodium acetate are mixed to form a buffer solution. Considering that the ionization of acetic acid is occurring at dissociation constant of 1.74 x 10 ⁻⁵ , what will be its pKa value? (Given: log 1.74 = 0.24) 1. 5.24 2. 4.76 3. 0.024 4. 0.5		
		A2:2 A3:3 A4:4		
Obje 4	ctive Qu	nestion	4.0	1.00
		Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A): The fluorescence of Green Fluorescent Protein (GFP) occurs without the assistance of any helper molecule or prosthetic group. Reason (R): Three amino acids-serine, tyrosine and glycine- in the sequence of GFP react between themselves to form a chromophore that imparts light-transducing capability to GFP In light of the above statements, choose the <i>correct</i> answer from the options given below. 1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false. 4. (A) is false but (R) is true.		
		A1:1		
		A2:2 A3:3		
		A4:4		
Obje	ctive Qu	estion	1	



Match List-I with List-II

List-I	List-II
Sugar Alcohol	Use/Property
(A). Sorbitol	(I). Constituent of flavin coenzymes
(B). <i>myo-</i> Inositol	(II). Used as a laxative to relieve constipation
(C). Ribitol	(III). Most commonly used osmotic diuretic
(D). Mannitol	(IV). Cyclic sugar alcohol

Choose the **correct** answer from the options given below:

- 1. (A) (I), (B) (III), (C) (II), (D) (IV)
- 2. (A) (II), (B) (I), (C) (IV), (D) (III)
- 3. (A) (II), (B) (IV), (C) (I), (D) (III)
- 4. (A) (I), (B) (IV), (C) (II), (D) (III)

A1:1

A2:2

A3:3

A4:4

6	106	The molarity of a buffer soultion made up from a weak acid and its conjugate base would be equal to:	4.0	1.00
		1. Molar concentration of weak acid only.		
		Molar concentration of the conjugate base of the weak acid.		
		Sum of the molar concentration of both the weak acid and its conjugate base.		
		4. Net value obtained after deducting the molar concentration of conjugate base from the concentration of weak acid.		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Obj	ective Q	uestion		
7	107		4.0	1.00
		Which of the following patterns is true about the relationship between three pKa values of triprotic phosphoric acid?		
		4 -W-4 -W-2		
		1. pKa1 < pKa2 < pKa3 2. pKa1 > pKa3		
		3. pKa1 = pKa2 = pKa3		
		4. pKa3= (pKa1 + pKa2)/2		
		A1:1		
		A2:2		
		A3:3		
		A4:4		

8	108	Which of the following enzymes of Glycolytic pathway has achieved the catalytic perfection in the sense that any increase in its catalytic efficiency would not increase the rate of reaction catalysed by it? 1. Hexokinase 2. Pyruvate kinase 3. Triose phosphate isomerase 4. Phosphofructokinase A1:1 A2:2 A3:3 A4:4	4.0	1.00
Obje	ective Qu	uestion		
9	109	Non-GM herbicide tolerant rice varieties viz. PB 1979 and PB 1985 have been developed by mutating gene encoding for which one of the following enzymes? 1. Acetolactate synthase 2. Glutamine synthetase 3. 5-Enolpyruvylshikimate-3-phosphate (EPSP) synthase 4. Acetoacetate synthase A1:1 A2:2 A3:3 A4:4	4.0	1.00
Obje	ective Qu	uestion		
10	110		4.0	1.00

Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A): Carbohydrates are more efficient storage form of the energy as compared to the triacylglycerols. Reason (R): Carbohydrates are more oxidized and hence yield more energy on oxidation. In light of the above statements, choose the correct answer from the options given below. 1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false. 4. Both (A) and (R) are false. A1:1 A2:2 A3:3 A4:4 Objective Question 4.0 1.00 Match List-I with List-II List-I List-II Form of the DNA Occurance (I). Observed in vitro when DNA helix becomes desiccated. (A). B-DNA (B). A-DNA (II). The most common form of DNA found in vivo. (III). Triple helical structure formed by polypurine-polypyrimidine stretch of DNA with mirror-repeat (C). Z-DNA symmetry. (D). H-DNA (IV), adopted under high salinity conditions in short sequences that alternate pyrimidine and purine. Choose the correct answer from the options given below: 1. (A) - (II), (B) - (III), (C) - (I), (D) - (IV) 2. (A) - (II), (B) - (I), (C) - (III), (D) - (IV) 3. (A) - (II), (B) - (I), (C) - (IV), (D) - (III) 4. (A) - (II), (B) - (IV), (C) - (I), (D) - (III) A1:1 A2:2

111

A3:3

A4:4

Objective Question				
12	112		4.0	1.00
1				
		The absorbance of a solution of an analyte having 75% transmittance would be equal to (Given log 5= 0.6990 and log 3= 0.4771):		
		1. 0.75 2. 0.25		
		3. 0.125		
		4. 0.0625		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Obje	ective Qu	nestion	<u> </u>	
	113		4.0	1.00
		The "Van Deemter equation" describes the elements of band broadening and chromatographic column efficiency in terms of		
		(A). Eddy diffusion of analyte in the column		
		(B). Longitudinal diffusion of analyte in the column		
		(C). Mass transfer of analyte between stationary and mobile phase		
		(D). Flow rate		
		Choose the <i>correct</i> answer from the options given below:		
		1. (A), (B) and (D) only.		
		2. (A), (B) and (C) only.		
		3. (A), (B), (C) and (D).		
		4. (C) and (D) only.		
		 A1 : 1		
		ALL		
		A2.2		
		A2:2		
		A3:3		
		A4:4		
Obje	ective Qu	lestion		

14	14 114	4.0	1.00

List-I	List-II
Name of the Photorespiratory C ₂ cycle enzyme	Location of the enzyme
(A). Glycolate oxidase	(I). Mitochondria
(B). Glycine decarboxylase	(II). Peroxisome
(C). Glycerate kinase	(III). Cytosol
(D). NADPH-dependent hydroxypyruvate reductase 2	2 (IV). Chloroplast

Choose the correct answer from the options given below:

- 1. (A) (II), (B) (I), (C) (III), (D) (IV)
- 2. (A) (I), (B) (II), (C) (IV), (D) (III)
- 3. (A) (II), (B) (I), (C) (IV), (D) (III)
- 4. (A) (III), (B) (IV), (C) (I), (D) (II)

A1:1

A2:2

A3:3

A4:4

15	115	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).	4.0	1.00
		Assertion (A) : In the secondary structure of proteins, the parallel β -pleated sheets are less stable than antiparallel β -pleated sheets.		
		Reason (R): The hydrogen bonds of parallel β -pleated sheets are distorted in comparison to those of antiparallel β -pleated sheets.		
		In light of the above statements, choose the <i>correct</i> answer from the options given below.		
		1. Both (A) and (R) are true and (R) is the correct explanation of (A).		
		 Both (A) and (R) are true but (R) is NOT the correct explanation of (A). (A) is true but (R) is false. 		
		4. (A) is false but (R) is true.		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
_	ective Qu	estion		
16	116		4.0	1.00
		The sequence for the action of the following enzymes of fatty acid β -oxidation pathway is: (A). β -hydroxyacyl-CoA dehydrogenase		
		(B). Thiolase		
		(C). Enoyl CoA hydratase		
		(D). Acyl CoA – dehydrogenase		
		Choose the correct answer from the options given below:		
		1. (A), (B), (C), (D).		
		2. (B), (C), (A), (D).		
		3. (D), (C), (A), (B). 4. (C), (B), (D), (A).		
		A1:1		
		A2:2		
		A3:3		
		A4:4		

	tive Qu		4.0	1.00
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Obje	ctive Qu	nestion		\Box

18	118		4.0	1.00
		Fructans are polymers of fructose built upon which one of the following starter units?		
		1. Glucose 2. Galactose		
		2. Galactose 3. Sucrose		
		4. Trehalose		
		4. ITerialose		
		A1:1		
		A2:2		
		A3:3		
	II		II	
		A4:4		
-				
Obje	ctive Q	lestion		
19	119		4.0	1.00
		Which of the following enzymes contain an unusual amino acid viz. selenocysteine, at its active site?		
		1. Ascorbate peroxidase		
		2. Glutathione peroxidase		
		3. Superoxide dismutase		
		4. Catalase		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Obje	ctive Q	uestion		17

20	120	282 W 1894 B 1901 B 190		4.0	1.00
		Match List-I with List-II List-I	List-II		
		Name of the enzyme	Cofactor		
		(A). Nitrogenase	(I). Siroheme		
		(B). Nitrite reductase	(II). Homocitrate		
		(C). Serine hydroxymethyl transferase	(III). Pyridoxal phosphate		
		(D). Acetyl CoA carboxylase	(IV). Biotin		
		Choose the correct answer from the o	otions given below:		
		1. (A) - (I), (B) - (II), (C) - (IV), (D) - (II 2. (A) - (II), (B) - (I), (C) - (III), (D) - (IV 3. (A) - (III), (B) - (II), (C) - (IV), (D) - (IV 4. (A) - (III), (B) - (IV), (C) - (I), (D) - (IV)	0		
		A1:1			
		A2:2			
		A3:3			
		A4:4			
Obj	ective Q	uestion		"	
21	121			4.0	1.00

Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A): The citric acid cycle is amphibolic in nature rather than only catabolic. Reason (R): Several biosynthetic pathways utilize citric acid cycle intermediates as precursors for the synthesis of important In light of the above statements, choose the correct answer from the options given below. 1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false. 4. (A) is false but (R) is true. A1:1 A2:2 A3:3 A4:4 Objective Question 22 | 122 4.0 1.00 The correct sequence for the flow of electrons between following components of mitochondrial electron transport chain is: (A). NADH dehydrogenase (B). Cytochrome bc1 complex (C). Ubiquinone (D). Cytochrome C Choose the correct answer from the options given below: 1. (A), (B), (C), (D). 2. (A), (C), (B), (D). 3. (B), (A), (D), (C). 4. (C), (B), (D), (A). A1:1 A2:2

A3:3

A4:4

23	123		4.0	1.00
ı				
		Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A): In the early part of the twentieth century, the 2,4-Dinitrophenol (DNP) was prescribed as a "diet pill" for weight		
		loss.		
		Reason (R) : The DNP reduces metabolic rate by uncoupling oxidative phosphorylation from electron transport .		
		-		
		In light of the above statements, choose the <i>correct</i> answer from the options given below.		
		1. Both (A) and (R) are true and (R) is the correct explanation of (A).		
		2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false.		
		4. (A) is false but (R) is true.		
		A1:1		
		A2:2		
		A3:3		
		A4:4		

24	124	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).	4.0	1.00
		Assertion (A) : The nitrogenase enzyme is considered to be a sluggish and inefficient enzyme.		
		Reason (R): The nitrogenase enzyme must go through several catalytic reduction cycles, wherein the two components of the nitrogenase viz. Fe-Protein and MoFe-Protein get dissociated from each other following each electron transfer, before final product i.e. ammonia appears.		
		In light of the above statements, choose the <i>correct</i> answer from the options given below.		
		 Both (A) and (R) are true and (R) is the correct explanation of (A). Both (A) and (R) are true but (R) is NOT the correct explanation of (A). (A) is true but (R) is false. (A) is false but (R) is true. 		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Obje	ctive Qu	nestion		
25	125		4.0	1.00

Match List-I with List-II

List-I	List-II
Reductive Reaction	Number of electrons needed
(A). Conversion of nitrogen into one molecule each of ammonia and hydrogen	(I). Six
(B). Reduction of nitrate ion into hydrazine	(II). Two
(C). Reduction of nitrate ion to nitrite ion	(III). Eight
(D). Reduction of sulfite to sulfide	(IV). Seven

Choose the correct answer from the options given below:

- 1. (A) (II), (B) (I), (C) (III), (D) (IV)
- 2. (A) (III), (B) (II), (C) (I), (D) (IV)
- 3. (A) (III), (B) (IV), (C) (II), (D) (I)
- 4. (A) (III), (B) (IV), (C) (I), (D) (II)
- A1:1
- A2:2
- A3:3
- A4:4

26	126	8 126 Reading 5'→ 3', the sequence of following loops present in the clover leaf structure of t-RNA would be						
		(A). Anticodon loop						
		(B). D-Loop						
		(C). ΤψC loop						
		(D). Variable loop						
		Choose the correct answer from the options given below:						
		1. (B), (A), (C), (D).						
		2. (A), (B), (C), (D).						
		3. (B), (A), (D), (C).						
		4. (B), (D), (A), (C).						
		A1:1						
		A2:2						
		A3:3						
		A4:4						
Obje	ective Qu	estion						
27	127		4.0	1.00				
l								

Match List-I with List-II

List-I	List-II
Substrate concentration in comparison to Michaelis-Menton constant (K_m) / Total enzyme concentration (E_T)	Reaction characteristics
(A). $[S] << K_m$	(I). Reaction follows zero-order kinetics
(B). [S] >> K _m	(II). Reaction obeys first order kinetics
(C). [S] = K _m	(III). K_{m} and V_{max} do not define enzyme catalyzed reactions
(D). [S] < [E _T]	(IV). Rate of reaction (velocity) equals to one-half of the maximum velocity.

Choose the **correct** answer from the options given below:

- 1. (A) (IV), (B) (III), (C) (II), (D) (I)
- 2. (A) (III), (B) (II), (C) (I), (D) (IV)
- 3. (A) (II), (B) (I), (C) (IV), (D) (III)
- 4. (A) (III), (B) (IV), (C) (I), (D) (II)

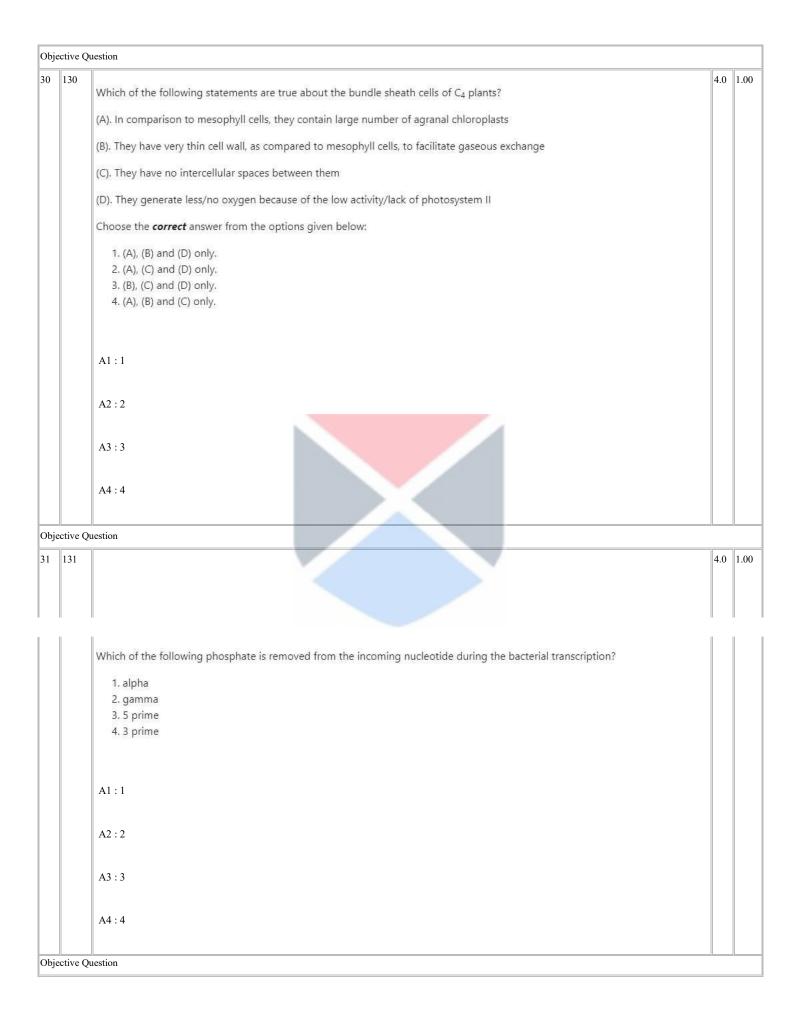


A2:2

A3:3

A4:4

28	128	Which of the following statement(s) is/are true about the Type IV isozyme of the hexokinase?	4.0	1.00
		(A). It is highly specific for glucose and is thus often called as glucokinase.		
		(B). It has much higher K _m value for glucose		
		(C). It is allosterically inhibited by glucose-6-phosphate		
		(D). It is a non-inducible enzyme and follows Michaelis-Menten Kinetics		
		Choose the <i>correct</i> answer from the options given below:		
		1. (A), (B) and (D) only.		
		2. (A) and (B) only. 3. (A), (C) and (D) only.		
		4. (A) and (D) only.		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
ı				
Obje	ctive Qu	estion		
29	129	Which of the following statement(s) is/are true about the role of Malonyl CoA in fatty acid metabolism?	4.0	1.00
		(A). It is an inhibitor of the enzyme "Carnitine acyltransferase"		
		(B). High levels of malonyl CoA suppress fatty acid entry into the mitochondria		
		(C). High levels of malonyl CoA lead to reduced flux of fatty acids towards triglycerides' biosynthesis		
		(D). Low levels of malonyl CoA favour fatty acid oxidation		
		Choose the <i>correct</i> answer from the options given below:		
		1. (A), (B) and (D) only.		
		2. (A), (B) and (C) only. 3. (A), (B), (C) and (D).		
		4. (B), (C) and (D) only.		
		A1:1		
		A2:2		
		A3:3		
		A4:4		



32	132		4.0	1.00
		Which of the following is not related with termination of transcription in E. coli?		
		1. ppGpp		
		2. pppGpp		
		3. Alarmones		
		4. pGp		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Objec	ctive Q	uestion		
33	133		4.0	1.00
		Which of the following is/are true for B-DNA?		
		(A). It is Right-handed		
		(B). It has 10.4 base pairs per turn of helix		
		(C). It's helix diameter is broadest among A and Z type		
		(D). The glycosidic bond is of anti type		
		Choose the <i>correct</i> answer from the options given below:		
		1. (A), (B) and (C) only.		
		2. (A), (C) and (D) only.		
		3. (B), (C) and (D) only.		
		4. (A), (B) and (D) only.		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Objec	ctive O	uestion		<u> </u>

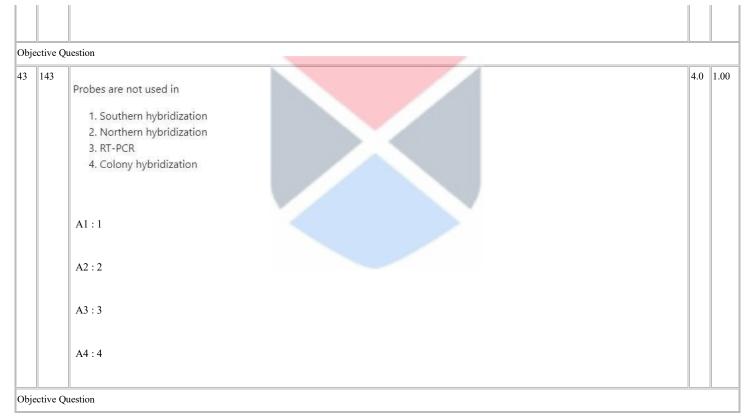
34	124		4.0	1.00
34	134	Which of the following cellular structure found in all prokaryotes?	4.0	1.00
		(A). Ribosome		
		(B). Capsules		
		(C). Flagellum		
		Choose the <i>correct</i> answer from the options given below:		
		1. (A), (B) and (C). 2. (A) only.		
		3. (B) only.		
		4. (C) only.		
		A1:1		
		A2:2		
		A3:3		
		15.5		
		A4:4		
_	ctive Qu	nestion The state of the state	II	
35	135	Which of the following cellular structure is found only in a plant cells?	4.0	1.00
		1. Glyoxysomes		
		2. Vacuoles		
		3. Lysosomes		
		4. Cytoskeleton		
		A1:1		
		A2:2		
		A3:3		
		A3.3		
		A4:4		
Obje	ctive Qu	estion		

36	136	Which of the following can add the terminal 5'CCA3' at the end of mature tRNA?	4.0	1.00
		1. tRNA nucleotidyltransferase		
		2. RNase D		
		3. RNase P		
		4. RNase E/F		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Obje	ctive Q	uestion		
37	137	What are Twintrons?	4.0	1.00
		Group II introns Group III introns		
		Composite structure made up of two or more Group II and Group III introns		
		4. An archaeal introns		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Obje	ctive Q	uestion		

38	138	Which of the following restriction endonuclease requires Mg ²⁺ for cleavage?	4.0	1.00
		1. EcoK		
		2. EcoRl		
		3. EcoB		
		4. EcoP1		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Obje	ective Q	Question		
39	139	Which of the following is the activity of alkaline phosphatase?	4.0	1.00
		1. Addition of 5' –PO ₄ ⁻ 2. Removal of 5'-PO ₄ ⁻		
		3. Removal of nucleotides from 3' -ends		
		4. Removal of single-strand protrusions from the end 1. Removal of single-strand protrusions from the end		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Obje	ctive Q	Question		

40	140	Which of the following vector can be used for obtaining single-strand copies of a cloned sequence?	4.0	1.00
		1. pUC18		
		2. Cosmid		
		3. λ phage		
		4. Phage M13		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Obie	ective Q	uestion		
-	141		10	1.00
41	141	Which of the following is an example of scorable marker?	4.0	1.00
		1. Ampicillin		
		2. β-galacturonidase 3. Kanamycin		
		4. Neomycin		
		4. Neomyem		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Obje	ective Q	uestion	-11	11

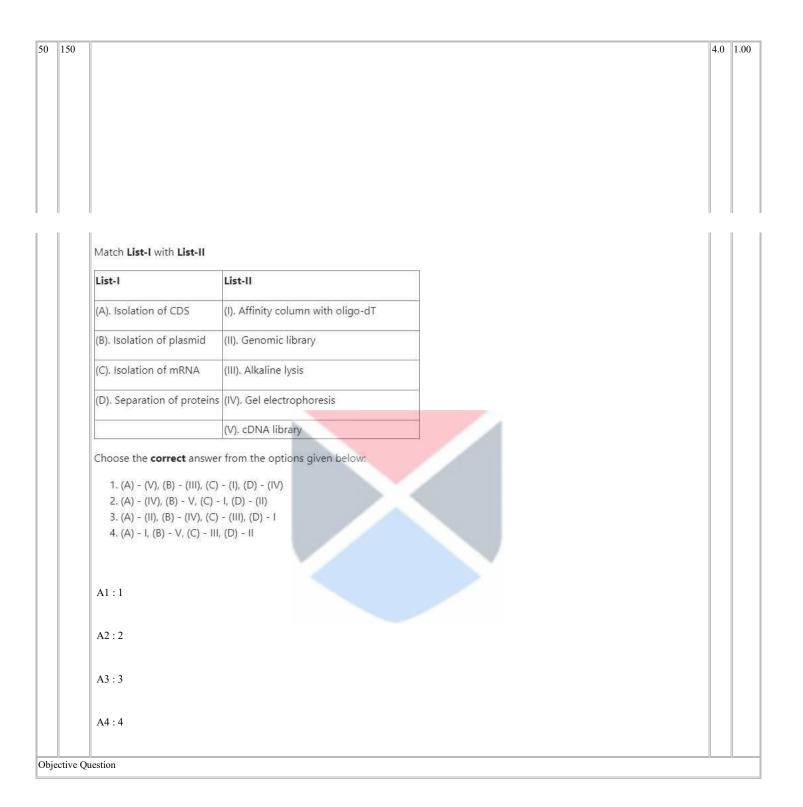
142	Which of the following cannot be used for confirmation of positive clones?	4.0	1.00
	The state of the s		
	4. Growing transformants under low temperature		
	A1:1		
	A2:2		
	$A_3 \cdot 3$		
	73.3		
	A4:4		
	142	Which of the following cannot be used for confirmation of positive clones? 1. Colony hybridization 2. Colony PCR 3. Growing transformants on selection media 4. Growing transformants under low temperature A1:1 A2:2 A3:3	Which of the following cannot be used for confirmation of positive clones? 1. Colony hybridization 2. Colony PCR 3. Growing tranformants on selection media 4. Growing transformants under low temperature A1:1 A2:2 A3:3



44	144	A progeny drosophila with grey body and vestigial wings derived from a cross between parents with grey body and normal wings with black body and vestigial wings indicate: (A). There is recombination between alleles of body color and types of wings of drosophila (B). These two genes assort independently (C). These genes are linked together (D). These genes are pleiotropic in nature Choose the <i>correct</i> answer from the options given below: 1. (A), and (C) only. 2. (A), (B) and (C) only. 3. (A), (B), (C) and (D). 4. (B) and (C) only. A1: 1 A2: 2 A3: 3 A4: 4	4.0	1.00
Ohia	ctive Q	usetion.		
45	145	uestion	4.0	1.00
	170	Which of the following database do not store nucleic acid data? 1. GenBank 2. EMBL 3. DDBJ 4. SWISS-PROT	7.0	
		A2:2		
		A3:3 A4:4		
OF.	otion C			
Obje	ctive Q	uestion		

46	146	Hormones that are to be used in tissue culture can be sterilized by 1. Autoclave 2. Flame sterilization 3. Air (HEPA) filtration 4. Filter sterilization A1:1 A2:2 A3:3	4.0	1.00
		A4 : 4		
Obje	ective Qu	iestion		
47	147	The expression of an anti-nutrional factor/negative regulator can be eliminated by which of the following tools (A). RNA interference (B). Genome editing (C). Over-expression of encoding gene (D). Insertional mutagenesis (E). TILLING Choose the <i>correct</i> answer from the options given below: 1. (A), (B), (C) and (D) only. 2. (A), (C), (D), and (E) only. 3. (B), (C), (D), and (E) only. A1:1 A2:2 A3:3 A4:4	4.0	1.00
Obje	ective Qu	nestion		
48	148		4.0	1.00

	Which of the following is correct statement for Genetic Code:		
	(A). It uses ribonucleotide bases to make a codon.		
	(B). It uses deoxyribonucleotide bases to make a codon.		
	(C). A single coding dictionary is used by almost all viruses, prokaryotes, archaea, and eukaryotes		
	(D). During translation, the codons are read one after the other with no breaks between them until a stop signal is found.		
	Choose the <i>correct</i> answer from the options given below:		
	1. (A), (C) and (D) only.		
	2. (A), (B) and (C) only.		
	3. (B), (C) and (D) only.		
	4. (A), (B), and (D) only.		
	A1:1		
	Al.1		
	A2:2		
	A3:3		
	A4:4		
Objective Q	nuestion entertain the state of		
149	Which of the following statement is/are correct with respect to bacterial transduction	4.0	1.00
	Statement (A): A partially diploid bacterial cell for the transduced gene can be produced.		
	Statement (B): The partial diploid case is resulted due to a complete transduction phenomenon		
	In light of the above statements, choose the most appropriate answer from the options given below.		
	1. Both A and B are correct.		
	2. B is correct but A is incorrect.		
	3. A is correct but B is incorrect.		
	4. Both A and B are incorrect.		
	A1:1		
	A1:1		
	A2:2		
	A3:3		
	A4:4		
	A4:4		
bjective Q			



	Match List-I with List-II List-I	List-II		
	List-I	List-II		
	(A). Amplification of a known DNA sequence	(I). RT-PCR		
	(B). Amplification of cDNA sequence	(II). Competent Cells		
	(C). Selection of transformed cells	(III). PCR		
	(D). CaCl ₂	(IV). Colony PCR		
		(V). Plasmid isolation		
	Choose the correct answer from the options of the correct answer from the correct answer from the correct answer from the correct answer from the options of the correct answer from the correct answer	given below:		
	A1:1 A2:2			
	A3:3	X		
	A4:4			
ve Q	Question		И	
52	Which of the following statement is/are corre- Statement (A): Expressed sequence tags are s			4.0
	Reason (B) : ESTs can be used as STS.			
	In light of the above statements, choose the n	nost appropriate answer from th	e options given below .	
	 Both (A) and (B) are correct. Both (A) and (B) are incorrect. Only (A) is correct but (B) is incorrect. Only (B) is correct but (A) is incorrect. 			
	A1:1			
	A1:1 A2:2			

Obje	ctive Qu	lestion		
53	153	Which of the following hormone is preferred for rooting in plant tissue culture? (A). IAA (B). BAP (C). Kinetin Choose the correct answer from the options given below: 1. (A) only. 2. (B) only. 3. (C) only. 4. (A), (B) and (C). Al : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

54	154		4.0	1.00
		Where is the Indian Institute of Agricultural Biotechnology located in India?		
		1. Ranchi		
		2. New Delhi		
		3. Hyderabad		
		4. Bangalore		
	11		II	
		A1:1		
		A2:2		
		A3:3		
		A3:3		
		A4:4		
Obje	ective Q	uestion		
55	155	What is the correct extended form of GEAC?	4.0	1.00
		1. Genetic & Epigenetic Advanced Centre		
		Genetic Engineering Appraisal Committee Genome Editing Approval Committee		
		Genome Engineering Approval Committee 4. Genome Engineering Approval Committee		
		A1:1		
		A2:2		
		A2:2		
		A3:3		
		A4:4		
Obje	ective Q	uestion		

56	156		4.0	1.00	ı
50	130	Centrioles are present in the cytoplasm of the cells of the organism	4.0	1.00	
		1. Animal cell			ı
		2. Plant Cell			ı
		3. Fungi			ı
		4. E. coli			ı
					ı
					ı
					ı
		A1:1			ı
					ı
		A2:2			ı
					ı
					ı
		A3:3			ı
					ı
		A4:4			ı
					ı
01.	0	·			ı
	ective Qu	lestion	1		
57	157	PCR based DNA amplification is an essential feature of which of the following combination of molecular markers	4.0	1.00	ı
		PCK based DNA amplification is an essential leature of which of the following combination of molecular markers			ı
		1. RFLP, AFLP and SSR			ı
		2. RFLP, RAPD and SSR			ı
		3. AFLP, SSR and RAPD			ı
		4. RAPD, RFLP and SSR			ı
					ı
					ı
		A1:1			ı
					ı
					l
		A2:2			ı
					ı
		A3:3			ı
					ı
					ı
		A4:4			ı
					ı
Obie	ctive Qu	lestion			ı
Juje	ZIIVE QI	**OHOH			4

158	Match List-I with List-II		4.0
	List-I	List-II	
	(A). Alec Jeffery	(I). Reverse transcriptase	
	(B). Temin and Baltimore		
	18 ×2	(III). DNA finger printing	
	(D). Karry Mulli	(IV).Transformation in Bacteria	
	Chanse the correct answ	er from the options given below:	
	1. (A) - (IV), (B) - (II), (C 2. (A) - (III), (B) - (IV), (I 3. (A) - (I), (B) - (III), (C) 4. (A) - (III), (B) - (I), (C)	C) - (I), (D) - (III) C) - (I), (D) - (II) I - (IV), (D) - (II)	
	A1:1		
	A2:2		
	A3:3		
	A4 : 4		
jective Q	Question		
159	The properties of RAPD N	Narker are	4.0
	(A). Dominant Marker	and are	
	(B). Single Primer		
	(C). Specific and target ba	and	
	(D). Low annealing tempe		
		er from the options given below:	
	1. (A), (B) and (C) only. 2. (A), (B) and (D) only 3. (A), (C) and (D) only 4. (B), (C) and (D) only		
	A1:1		

		A3:3		
		A4:4		
Obje	ctive Qu	uestion		
60	160	What is the year of establishment of NCBI? 1. 1991 2. 1988 3. 1990 4. 1989 A1:1 A2:2 A3:3	4.0	1.00
Obie	ctive Qu	A4:4		
	161	What is not the query sequence in BLASTn? 1. DNA 2. RNA 3. Protein 4. tRNA	4.0	1.00
		A1:1 A2:2		
		A3:3		
		A4:4		
Obje	ctive Qu	nestion		

62	162	What is the most relevant use of BLAST	4.0	1.00
		1. Protein disulfide bond identification		
		2. Sequence Tagging		
		3. Sequence Alignment		
		4. DNA Methylation identification		
		A1:1		
		A2:2		
		A3:3		
		A3:3		
		A4:4		
			ı	I
_				
	ective Qu	estion		1
63	163	Universally required vitamin in tissue culture medium is	4.0	1.00
		1. Nicotinic acid		
		2. Glutamic Acid		
		3. Thiamine HCI 4. Sucrose		
		4. Sucrose		
		A1:1		
		Al: I		
		A2:2		
		A3:3		
		A4:4		
4				
_	ective Qu			

	1		_				
64	164	Which of the following statement is most correct in DNA replication	4.0	1.00			
		Helicase enzyme separates the two strands, DNA gyrase helps in opening of DNA double helix in front of replication fork and Tus protein helps in termination of replication					
		2. DNA polymerase enzyme separates the two strands, DNA gyrase helps in opening of DNA double helix in front of replication fork and Tus protein helps in termination of replication					
		3. Helicase enzyme separates the two strands, DNA ligase helps in opening of DNA double helix in front of replication fork and Tus protein helps in termination of replication					
		4. DNA ligase enzyme separates the two strands, DNA gyrase helps in opening of DNA double helix in front of replication fork and topoisomerase helps in termination of replication					
		A1:1					
		A2:2					
		A3:3					
		A4:4					
Obje	ective Q	Duestion Duestion					
65	165		4.0	1.00			
		Terminating or stop codons are					
		1. UAA, UGA, UGG 2. UAA, UAG, UGA					
		3. UAG, UUU, UGG					
		4. UAA, UAG, UGG					
		A1:1					
		A2:2					
		A3:3					
I							
		A4:4					
Obje	ojective Question						

66	166	The chemical used for encapsulating somatic embryo to produce Synthetic seeds is	4.0	1.00
		Sodium alginate Sodium nitrate		
		3. Sodium chloride		
		4. Sodium acetate		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Obie	ctive O	uestion		
\vdash	167		4.0	1.00
67	167	The important features of Shine Dalgarno Sequence are	4.0	1.00
		(A).Determine Trasncription initiation site		
		(B).Distinct means of determining the translational start site in prokaryote		
		(C).Complementary to part of the 3' end of 16S rRNA		
		(D).Termination recognition in prokaryotes		
		Choose the <i>correct</i> answer from the options given below:		
		1. (B) and (C) only.		
		2. (A) and (B) only.		
		3. (B) and (D) only		
		4. (C) and (D) only.		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Obje	ctive Q	uestion		

68	168	Identify the nucleotide cap that is attached at the 5'end of mRNA	4.0	1.00			
		1. 5-methyl guanosine					
		2. 7-methyl guanosine					
		3. 5- acetyl guanosine					
		4. 7- acetyl guanosine					
		A1:1					
		A2:2					
		A3:3					
		A4:4					
Obje	ctive Q	uestion					
69	169	DNA ligase is the molecular glue or gum, which joins together the cut-ends of DNA by creating 1. Phosphotriester bond 2. Phosphodiester bond 3. Hydrogen Bond	4.0	1.00			
		4. N-glycosidic bond A1:1					
		A2:2					
		A3:3					
		A4:4					
Obje	Objective Question						

70	170		4.0	1.00
		The first crop plant genome sequenced		
		1. Tomato		
		2. Wheat		
		3. Rice		
		4. Barley		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Obje	ctive Q	uestion		
71	171		4.0	1.00
		Batch cultures are type of suspension culture where		
		1. Medium is continuously replaced		
		2. A closed system and medium is loaded only at the begining		
		3. No depletion of the medium throughout the growth period		
		Cellular wastes are continuously removed and replaced		
		A1:1		
		A2:2		
		A3:3		
1				
		A4:4		
Obje	ctive Q	uestion	-(1	

72	172	The genes present in Bollgard II Cotton are	4.0	1.00			
		The genes present in Boligard it Cotton are					
		1. Cry1Ac and Cry 2Ab					
		2. Cry1Ac and CP4-EPSPS					
		3. Cry1Ac and Cry1Fa1					
		4. Barnase/Barstar genes					
		A1:1					
		A2:2					
		A3:3					
		A4:4					
Obje	ctive O	uestion					
	1			TI TI			
73	173	Ti annualing along the Court Annual 2d annualing to the sale of the day and annual When the 2 along with the sale	4.0	1.00			
		T1 generation plants for Cry 1Ac gene showed 3:1 segregation for the selected trait and gene. When the 3 plants with the gene were selfed which one of the following statements explain the results					
		were seried which one of the following statements explain the results					
		1. Two of three plants produced all the progeny plants with the gene					
		2. All three plants produced all the progeny plants with the gene					
		3. Only one out of 3 plants produced all the progeny plants with the gene					
		4. All the three plants produced progeny plants which showed segregation for the gene					
		A1:1					
		A1:1					
		A2:2					
		A3:3					
		A4:4					
Obje	Objective Question						

74	174		4.0	1.00
		Which type of toxins are produced by Bacillus thuringiensis?		
		1. γ-Endotoxin		
		2. δ Endotoxin		
		3. α-Endotoxin		
		4. β-Endotoxin		
		A1:1		
		AI.1		
		A2:2		
		A3:3		
		A4:4		
Obje	ective Q	uestion		
75	175		4.0	1.00
		The enzyme that displaces histone octamer during transcription is		
		1. DNA polymerase		
		2. Gyrases		
		3. Helicases		
		4. RNA polymerase		
		A1:1		
		A2:2		
		A3:3		
		A3 . 3		
		A4:4		
01.				
Obje	ective Q	JESUON JUNIN JESUON JUNIN JESUON JESU		

76	176	A type of B-lymphocyte 1. Erythrocyte 2. Adipocyte 3. Plasma cell 4. Memory cell A1:1	that produces anti	abody is	0 1	.00			
		A3:3							
		A4:4							
Obje	ctive Qu	nestion				\neg			
77	177	Match List-I with List-II							
		List-I	List-II						
		(A). Orthologues	(I). Removal of Intro	ons					
		(B). Splicing	(II). Protein fingerp	printing.					
		(C). Mass spectrometry	(III). Protein Databa	ase					
		(D). UniProt	(IV). Homologous g	genes found in different organisms					
		Choose the correct ans 1. (A) - (II), (B) - (III), 2. (A) - (IV), (B) - (III), 3. (A) - (IV), (B) - (I), (4. (A) - (III), (B) - (II),	(C) - (IV), (D) - (I) (C) - (I), (D) - (II) C) - (II), (D) - (III)	ns given below:					
		A1:1							
		A2:2							
		A3:3							
		A4:4							
Obje	ejective Question								

78	178	DNA sequencing followed by genome annotation are steps of	4.0	1.00
		1. Comparitive Genomics		
		2. Functional Genomics		
		3. Transcriptomics		
		4. Structural Genomics		
		4. Structural Genomics		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
		A4.4		
Obie	ctive Qu	nestion	'	
_	1			1
79	179	The internal design of the control o	4.0	1.00
		The inter-chelating agent used as a stain for visualizing DNA in a UV spectrophotometer is		
		1. Ethidium Bromide		
		2. Bromophenol		
		3. Silver Nitrate		
		4. X Gal		
		T. A. Gall		
		A1:1		
		A2:2		
		A3:3		
		A4 : 4		
		A4 : 4 		
Obje	ctive Qu	estion		
_				
80	180		4.0	1.00
		An example for a scorable marker in Genetic engineering		
		1. hpt		
		2. gus		
		3. amp		
		4. nptll		
		7. 11.		
		A1:1		
		A2:2		

		A3:3		
		A4:4		
Obje	ctive Qı	uestion		
81	181		4.0	1.00
		The outer layer of the primary plant body, which protects the underlying tissues, is called		
		1. Xylem		
		2. Ground tissue		
		3. Epidermis		
		4. Phloem		
		A1:1		
		AL. I		
		A2:2		
		AZ . Z		
		A3:3		
		A3 . 3		
		A4:4		
_	ctive Qu	lestion	4.0	1.00
82	182	The correct order of light reaction elements is	4.0	1.00
		a. PSI		
		b. PSII		
		c. Plastocyanin		
		d. Plastoquinol		
		1. b, d, c, a 2. b, c, d, a		
		3. a, d, c, d		
		4. b, c, a, d		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Obje	ctive Qu	uestion		

33 183			4.0	1.00
183	The end product of anae	obic respiration is	4.0	1.00
	1. Ethanol			
	2. Pyruvate			
	3. 3-Phosphoglyceric	acid		
	4. Glycerol			
	A1:1			
"	II		" "	"
	A2:2			
	AZ.Z			
	A3:3			
	A4:4			
Objective	· Question			<u> </u>
34 184			4.0	1.00
	Match List-I with List-II			
	List-I	List-II		
	Plant hormone	Responses		
	(A). Gibberellins	(I). Inhibition of vivipary		
	(B). Indole-3-acetic acid	(II). Cell division factor		
	(b). Indole-5-acetic acid	(ii). Cell division factor		
	(C). 6-Benzylaminopurin	e (III). Cell elongation		
	The Alberta Market I			
	(D). Abscisic Acid	(IV). Seed germination		
	Choose the correct answ	er from the options given below:		
	1. (A) - (I), (B) - (II), (C			
	2. (A) - (IV), (B) - (III),			
	3. (A) - (II), (B) - (I), (C) 4. (A) - (III), (B) - (IV),			
	4. (A) (III), (b) (IV),			
	A1:1			
	A2:2			
	A3:3			
	A4:4			
bjective				

85	185	A copper-containing protein that takes part in electron transport in the chloroplast is	4.0	1.00
		1 Catalana Caribaa		
		1. Cytochrome C-oxidase		
		Plastocyanin Riboflavin		
		4. Plastoquinone		
		4. Plastoquillotte		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
_				
Obje	ective Q	uestion		
86	186		4.0	1.00
		The chemical used to induce uniform flowering in pineapple is		
		1. Paclobutrazol		
		2. Naphthalene Acetic Acid		
		3. 2,4,5-Trichlorophenoxyacetic acid		
		4. trans-zeatin		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
	<u> </u>	<u> </u>	<u> </u>	Щ
Obje	ective Q	uestion		

87	187	Extent of canopy cover at a particular developmental stage of crop is termed as	4.0	1.00
		d. Louf-mount in (LAD)		
		Leaf area ratio (LAR) Lead Area Index (LAI)		
		3. Leaf Area Duration (LAD)		
		4. Specific leaf area (SLA)		
		4. Specific lear area (SEA)		
		A1:1		
		A2:2		
		A3:3		
		A3 : 3		
		A4:4		
Obje	ective Q	ruestion		
88	188	T	4.0	1.00
		The portable instrument used to record photosynthesis in plants is		
		1. Isotope-ratio mass spectrometer (IRMS)		
		2. Inductively coupled plasma optical emission spectrometer (ICP-OES)		
		3. Infrared Gas Analyzer (IRGA)		
		4. Atomic absorption spectroscope (AAS)		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Or:	notive O	hystian.		
_ •	ective Q	uestion		1.00
89	189		4.0	1.00
				II

		The typical earliest symptom of Iron (Fe) deficiency in the crop plant is 1. Interveinal chlorosis of older leaves 2. Interveinal chlorosis of young leaves 3. Necrotic spots on old leaves and fruits 4. Leaf rosetting and the poor internode elongation		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Obj	ective Q	uestion		
90	190	An example of a perennial plant exhibiting monocarpic senescence is 1. Teak 2. Bamboo 3. Mulberry 4. Mango A1:1 A2:2 A3:3 A4:4	4.0	1.00
Ohi	ective Q	uestion	1	

91	191	[(Grain yield / Biological yield)× 100] =	4.0	1.00
		1. Harvest Index (HI)		
		2. Relative Growth Rate (RGR)		
		3. Crop Growth Rate (CGR)		
		4. Net Assimilation Rate (NAR)		
		A1:1		
		AI.I		
		A2:2		
		A3:3		
		A4:4		
		A4:4		
Obje	ective Q	uestion		
92	192		4.0	1.00
		An example of non-climacteric fruit is 1. Banana 2. Mango 3. Avocado 4. Citrus A1:1 A2:2 A3:3 A4:4		
Obje	ective Q	uestion		1

93	193		4 0	1.00
,,	173	The common chemical agents used as preservative solutions to improve the keeping quality of cut flowers is	4.0	1.00
		1. Silver thiosulfate		
		2. Magnesium sulfate		
		3. Sodium chloride		
		4. Sodium hydroxide		
		320-447 (1975) 1483 (32.11) 14 (1975) 1473 (47.11) 1473 (
		A1:1		
		A2:2		
		R2.2		
		A3:3		
		A4:4		
	ective Qu	uestion		
94	194		4.0	1.00
		A herbicide which belongs to a synthetic-auxin type is		
		1. Glyphocine		
		2. Dicamba		
		3. Thidiazuron		
		4. Atrazine		
		A1:1		
		A2:2		
		R2.2		
		A3:3		
		A4:4		
_	ective Qu	uestion	"	"
95	195		4.0	1.00
			**	

		The amount of water transpired by a plant divided by the amount of carbon dioxide assimilated is known as		
		1. Water use efficiency		
		2. Transpiration ratio		
		3. Quantum Efficiency		
		4. Carbon Assimilation		
		A1:1 A2:2 A3:3		
		A4:4		
Obje	ctive Q	Question		"
96	196	The process of the discharge of liquid from the tip of a healthy leaf under humid conditions is called guttation, and this process occurs through specialized pores called 1. Pneumatophores 2. Lenticell 3. Hydathodes 4. Stomata A1:1	4.0	1.00
		A3:3		
Obie	ective O	A4:4		

0 =	40=		1.0	4.00
97	197	The experiments helped researchers in understanding of photosynthesis in plants is	4.0	1.00
		1. Joseph Priestley's experiments		
		2. Jan Ingenhousz's experiments		
		3. C B van Neil's experiments		
		4. T W Engleman's experiments		
		A1:1		
		A2:2		
		AZ:Z		
		A3:3		
		A3 . 3		
		A4:4		
Obje	ctive Q	uestion		
98	198		4.0	1.00
"				
ı				
		The moisture content in perishable horticultural produce with a short shelf life is		
		1. 30-40 per cent		
		2. 20-30 per cent		
		3. 80-90 per cent		
		4. 3 - 8 per cent		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Obje	ective Q	uestion		

The condition required for transpiration (water to move through the plant from the soil to the air) is (Note: soil water potential (W ²⁰), root water potential (W ²⁰), leaf water potential (W ²⁰), water potential in the atmosphere (water years), years, years		400			1.0	
2. groots _ gustal _ gustanesphere _ gustanesp	99	199	{Note: soil water potential (Ψ ^{soil}		4.0	1.00
3, great by great greaters by great greaters and the post-harvest system) A1:1 A2:2 A3:3 A4:4 Match List-I with List-II List-II (Activity/event) (A). Harvesting of farm produce (B). Marketing of farm produce (C). Loss of physical substance (D). Loss of seed viability (NY). The economic activity of the post-harvest system (D). Loss of seed viability (NY). The economic activity of the post-harvest system Choose the correct answer from the options given below: 1. (A) - (III), (B) - (IV), (C) - (I), (D) - (IV) 2. (A) - (B, B) - (B), (C, W), (C) - (IV), (D) - (IV) A1:1 A2:2 A3:3 A4:4						
A1:1 A2:2 A3:3 A4:4 Match List-I with List-II List-II (Activity/event) (Description of the post-harvest system) (A). Harvesting of farm produce (I). Quantity loss of harvested produce (B). Marketing of farm produce (I). Quality loss of produce (C). Loss of physical substance (II). The technical activity of the post-harvest system (D). Loss of seed viability (IV). The economic activity of the post-harvest system Choose the correct answer from the options given below: 1. (A) - (III), (B) - (IV), (C) - (I), (D) - (IV) 2. (A) - (I), (B) - (IV), (C) - (II), (D) - (IV) 3. (A) - (IV), (B) - (IV), (C) - (IV), (D) - (IV) 4. (A) - (IV), (B) - (IV), (C) - (IV), (D) - (IV) A1:1 A2:2 A3:3 A4:4			3. Ψ ^{root} > Ψ ^{soil} > Ψ ^{atmosphere} >	ψleaf		
A2:2 A3:3 A4:4 Match List-I with List-II List-II (A) Harvesting of farm produce (I), Quantity loss of harvest system (B) Marketing of farm produce (III), The technical activity of the post-harvest system (C). Loss of physical substance (III), The technical activity of the post-harvest system (D). Loss of seed viability (IV), The economic activity of the post-harvest system Choose the correct answer from the options given below: 1. (A) - (III), (B) - (IV), (C) - (III), (D) - (III) 2. (A) - (II), (B) - (IV), (C) - (III), (D) - (III) 4. (A) - (III), (B) - (IV), (C) - (III), (D) - (III) A1:1 A2:2 A3:3 A4:4			4, Ψ ^{root} > Ψ ^{atmosphere} > Ψ ^{soil} >	ψ ^{leaf}		
A3:3 A4:4 Match List-I with List-II List-I (Activity/event) (A). Harvesting of farm produce (B). Marketing of farm produce (C). Loss of physical substance (D). Loss of seed viability (IV). The economic activity of the post-harvest system Choose the correct answer from the options given below: 1. (A) - (III), (B) - (IV), (C) - (I), (D) - (II) 2. (A) - (I), (B) - (IV), (C) - (II), (D) - (II) 4. (A) - (III), (B) - (IV), (C) - (III), (D) - (III) A1:1 A2:2 A3:3 A4:4			A1 : 1			
A4 : 4 A4 : 4 Additional content of the post-harvest system			A2:2			
Objective Question Match List-I with List-II (Activity/event) (Description of the post-harvest system) (A). Harvesting of farm produce (I). Quantity loss of harvested produce (B). Marketing of farm produce (III). The technical activity of the post-harvest system (C). Loss of physical substance (III). The technical activity of the post-harvest system (D). Loss of seed viability (IV). The economic activity of the post-harvest system Choose the correct answer from the options given below: 1. (A) - (III), (B) - (IV), (C) - (I), (D) - (II) 2. (A) - (I), (B) - (IV), (C) - (II), (D) - (IV) 3. (A) - (I), (B) - (IV), (C) - (II), (D) - (II) 4. (A) - (III), (B) - (IV), (C) - (II), (D) - (II) A1 : 1 A2 : 2 A3 : 3 A4 : 4			A3:3			
Match List-I with List-II List-II List-II (Activity/event) (Description of the post-harvest system) (A). Harvesting of farm produce (I). Quantity loss of harvested produce (B). Marketing of farm produce (II). The technical activity of the post-harvest system (D). Loss of seed viability (IV). The economic activity of the post-harvest system (D). Loss of seed viability (IV). The economic activity of the post-harvest system (D). Loss of seed viability (IV). The economic activity of the post-harvest system (D). (A) - (III), (B) - (IV), (C) - (I), (D) - (IV) (D) - (IV			A4:4			
Match List-II List-II (Activity/event) (A). Harvesting of farm produce (B). Marketing of farm produce (C). Loss of physical substance (II). The technical activity of the post-harvest system (D). Loss of seed viability (IV). The economic activity of the post-harvest system Choose the correct answer from the options given below: 1. (A) - (III), (B) - (IV), (C) - (II), (D) - (II) 2. (A) - (I), (B) - (IV), (C) - (IV), (D) - (III) 4. (A) - (III), (B) - (IV), (C) - (IV), (D) - (III) A1 : 1 A2 : 2 A3 : 3 A4 : 4	Obje	ctive Q	nestion			
List-I (Activity/event) (A). Harvesting of farm produce (B). Marketing of farm produce (C). Loss of physical substance (C). Loss of seed viability (IV). The economic activity of the post-harvest system (D). Loss of seed viability (IV). The economic activity of the post-harvest system Choose the correct answer from the options given below: 1. (A) - (III), (B) - (IV), (C) - (II), (D) - (IV) 2. (A) - (I), (B) - (II), (C) - (III), (D) - (IV) 3. (A) - (I), (B) - (IV), (C) - (III), (D) - (IV) 4. (A) - (III), (B) - (IV), (C) - (III), (D) - (IV) A1:1 A2:2 A3:3 A4:4	.00	200	Match Liet-Lwith Liet-II		4.0	1.00
(A). Harvesting of farm produce (B). Marketing of farm produce (C). Loss of physical substance (II). The technical activity of the post-harvest system (D). Loss of seed viability (IV). The economic activity of the post-harvest system Choose the correct answer from the options given below: 1. (A) - (III), (B) - (IV), (C) - (I), (D) - (IV) 2. (A) - (I), (B) - (II), (C) - (IV), (D) - (III) 4. (A) - (III), (B) - (IV), (C) - (II), (D) - (IV) A1 : 1 A2 : 2 A3 : 3 A4 : 4				List-II		
(B). Marketing of farm produce (C). Loss of physical substance (III). The technical activity of the post-harvest system (D). Loss of seed viability (IV). The economic activity of the post-harvest system Choose the correct answer from the options given below: 1. (A) - (III), (B) - (IV), (C) - (I), (D) - (IV) 2. (A) - (I), (B) - (II), (C) - (IV), (D) - (IV) 3. (A) - (I), (B) - (IV), (C) - (II), (D) - (IV) 4. (A) - (III), (B) - (IV), (C) - (II), (D) - (IV) A1 : 1 A2 : 2 A3 : 3 A4 : 4			(Activity/event)	(Description of the post-harvest system)		
(C). Loss of physical substance (III). The technical activity of the post-harvest system (D). Loss of seed viability (IV). The economic activity of the post-harvest system (Choose the correct answer from the options given below: 1. (A) - (III), (B) - (IV), (C) - (I), (D) - (II) 2. (A) - (I), (B) - (II), (C) - (III), (D) - (IV) 3. (A) - (I), (B) - (IV), (C) - (II), (D) - (II) 4. (A) - (III), (B) - (IV), (C) - (II), (D) - (I)			(A). Harvesting of farm produce	(I). Quantity loss of harvested produce		
(D). Loss of seed viability (IV). The economic activity of the post-harvest system Choose the correct answer from the options given below: 1. (A) - (III), (B) - (IV), (C) - (I), (D) - (II) 2. (A) - (I), (B) - (II), (C) - (III), (D) - (IV) 3. (A) - (I), (B) - (II), (C) - (IV), (D) - (III) 4. (A) - (III), (B) - (IV), (C) - (II), (D) - (IV) A1 : 1 A2 : 2 A3 : 3 A4 : 4			(B). Marketing of farm produce	(II). Quality loss of produce		
Choose the correct answer from the options given below: 1. (A) - (III), (B) - (IV), (C) - (I), (D) - (II) 2. (A) - (I), (B) - (II), (C) - (IV), (D) - (IV) 3. (A) - (I), (B) - (II), (C) - (IV), (D) - (III) 4. (A) - (III), (B) - (IV), (C) - (II), (D) - (I) A1 : 1 A2 : 2 A3 : 3 A4 : 4			22 PG15			
1. (A) - (III), (B) - (IV), (C) - (I) (D) - (II) 2. (A) - (I), (B) - (II), (C) - (IV), (D) - (IV) 3. (A) - (I), (B) - (II), (C) - (IV), (D) - (III) 4. (A) - (III), (B) - (IV), (C) - (II), (D) - (I) A1 : 1 A2 : 2 A3 : 3 A4 : 4			(D). Loss of seed viability	(IV). The economic activity of the post-harvest system		
2. (A) - (I), (B) - (II), (C) - (III), (D) - (IV) 3. (A) - (I), (B) - (IV), (C) - (IV), (D) - (III) 4. (A) - (III), (B) - (IV), (C) - (II), (D) - (I) A1 : 1 A2 : 2 A3 : 3 A4 : 4			Choose the correct answer from	the options given below:		
4. (A) - (III), (B) - (IV), (C) - (II), (D) - (I) A1:1 A2:2 A3:3 A4:4						
A1:1 A2:2 A3:3 A4:4						
A2:2 A3:3 A4:4			4. (A) - (III), (B) - (IV), (C) - (II),	(D) - (I)		
A3:3 A4:4			A1:1			
A4:4			A2:2			
			A3:3			
Dejective Question			A4:4			
	 Obie	ctive O	estion			—

101	201	In trees at a height of 75 meters, the magnitude of gravitational component of water potential in leaves is: 1 0.25 MPa 2 0.50 MPa 3 0.75 MPa 4 1.00 MPa A1:1 A2:2 A3:3	4.0	1.00
		A4:4		
Obje	ctive Qu	testion		
102		An example of single membrane cell organelle associated with oil bodies in plant cells is: 1. Peroxisome 2. Lysosome 3. Vacuole 4. Glyoxysome A1:1 A2:2 A3:3 A4:4	4.0	1.00
	ctive Qu	nestion	1	
103	203		4.0	1.00

Enzymes of HMP shun	pathway are located in:	
(A). Cytosol		
(B). Plastids		
(C). Mitochondria		
(D). Peroxisomes		
Choose the correct an	wer from the options given below:	
1. (A) and (D) only		
2. (A), (B) and (C) or	ly	
3. (A), and (C) only		
4. (A) and (B) only		
A1:1		
A2:2		
A3:3		
A4:4		
e Question		

	List-I	List-II		
	(Scientist)	(Association)		
	(A). Mitchel	(I). Rate of diffusion of molecules down the concentration gradient/ chemical gradient		
	(B). Ficks	(II). Ion distribution across cell membranes - related to the membrane potential		
	(C). Giaquinta	(III). Chemi-osmotic machanism - ATP synthesis		
	(D). Nernst	(IV). Sucrose-proton transport model involving energy		
	1. (A) - (III), 2. (A) - (III), 3. (A) - (II), (rrect answer from the options given below: (B) - (IV), (C) - (I), (D) - (II) (B) - (I), (C) - (IV), (D) - (II) B) - (III), (C) - (I), (D) - (IV) (B) - (II), (C) - (IV), (D) - (I)		
	A1:1			
	A2:2 A3:3			
	A4:4			
e Qı	ıestion			
5				4.0
	The nutrient ele 1. Mn 2. Mo 3. Fe 4. Mg	ement essential for the synthesis of chlorophyll precursor in the biosynthesis of chlorophy	'll molecule	
	A1:1			
	A2:2			
	A3:3			

100	206		4.0	1.00
106	206	The amino donor to oxoglutarate during photorespiration is	4.0	1.00
		1. Glycine		
		2. Glutamate		
		3. Serine		
		4. Aspartate		
		4. Aspartate		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Obje	ctive Qu	nestion		
107	207		4.0	1.00
		In plant cells, the principal ion that is electrogenically pumped across membranes in plasmamembrane and tonoplast is		
		1. Mg**		
		2. K ⁺		
		3. Ca ⁺⁺		
		4. H ⁺		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
	ctive Qu	estion		
108	208		4.0	1.00

	Identify the crop(s) requiring vernalization :	
	(A). Barley	
	(B). Sunflower	
	(C), Carrot	
	(D). Ragi	
	Choose the <i>correct</i> answer from the options given below:	
	1. (A) only	
	2. (A) and (C) only	
	3. (C) and (D) only	
	4. (B) only	
	A1:1	
	A2:2	
	A3:3	
	A4:4	
Objec	ive Question	_

Most commonly used chemicals to break dormancy in seeds requiring light (Ex. Oats, Lettuce, Gladiolus atc.) are: (A). Potassium nitrate (B). Kinetin (C). Tribures (D). NAA Choose the correct answer from the options given below: 1. (A), (B) (C) and (D) only. 2. (B), (C) and (D) only. 3. (B) and (D) only. 4. (A) and (C) only. 4. (A) and (C) only. A1: 1 A2: 2 A3: 3 A4: 4 Objective Queetion (B). Cherry (C). Guava (D). Grape Choose the correct answer from the options given below: 1. (A), (C) and (D) only. 2. (A), (B) and (D) only. 3. (B), (C) and (D) only. 4. (B) and (D) only. 4. (B), (C) and (D) only. 4. (B), (C) and (D) only. 4. (B) and (D) only. 4. (B), (C) only. 4. (B) and (D) only. 4. (B), (C) and (D) only. 6. (C) onl			Management and description to the first decrease in south and the little (To Oak Law or Cladial Law)		
(B), Kinetin (C). Thiouses (D). NAA Choose the correct answer from the options given below:					
C(C), Trilourea (D), NAA Choose the correct answer from the options given below:					
CD; NAA Choose the correct answer from the options given below: 1. (A). (B) (C) and (D) 2. (B). (C) and (D) only; 4. (A) and (C) only; 5. (A) and (C) only; 5. (A) and (C) only; 6. (A) and (C) only; 6. (A) and (C) only; 7. (A) and (C) and					
Choose the correct answer from the options given below; 1. (A). (B) (C) and (D) 2. (B). (C) and (D) enly. 3. (B) and (D) enly. 4. (A) and (C) only. A1: 1 A2: 2 A3: 3 A4: 4 A3: 3 A4: 4 A4: 4 A5: 2 A5: 3 A6: 4 A6: 2 A6: 2 A6: 3 A6: 4			(C). Thiourea		
1. (A), (B) (C) and (D) and			(D). NAA		
2. (B). (C) and (D) only. 3. (B) and (D) only. 4. (A) and (C) only. Alt: 1 A2: 2 A3: 3 A4: 4 Objective Question III 211 Examples of Non-climacteric fruits (A). Lemon (B). Cherry (C). Guava (D). Grape Choose the correct answer from the options given below: 1. (A). (C) and (D) only. 2. (A). (B) and (D) only. 4. (B). (C) and (D) only. 4. (B). (C) and (D) only. Alt: 1 A2: 2 A3: 3 A4: 4			Choose the <i>correct</i> answer from the options given below:		
3. (8) and (D) only. 4. (A) and (C) only. A1:1 A2:2 A3:3 A4:4 Examples of Non-climacteric fruits (A) Lemon (B) Cherry (C) Guava (D) Grape Choose the correct answer from the options given below: 1. (A), (C) and (D) only. 2. (A), (B) and (C) only. 3. (A), (B) and (C) only. 4. (B), (C) and (D) only. A1:1 A2:2 A3:3 A4:4					
4. (A) and (C) only. A1:1 A2:2 A3:3 A4:4 Cobjective Question Examples of Non-climacteric fruits (A). Lemon (B). Cherry (C). Guava (D). Grape Choose the correct answer from the options given below: 1. (A). (C) and (D) only. 2. (A). (B) and (D) only. 3. (A). (B) and (D) only. 4. (B). (C) and (D) only. A1:1 A2:2 A3:3 A4:4					
Objective Question TH 211 Examples of Non-climacteric fruits (A), Lemon (B), Cherry (C), Guava (D), Grape Choose the correct answer from the options given below: 1. (A), (C) and (D) only. 2. (A), (B) and (C) only. 4. (B), (C) and (D) only. A1:1 A2:2 A3:3 A4:4					
Objective Question TH 211 Examples of Non-climacteric fruits (A), Lemon (B), Cherry (C), Guava (D), Grape Choose the correct answer from the options given below: 1. (A), (C) and (D) only. 2. (A), (B) and (C) only. 4. (B), (C) and (D) only. A1:1 A2:2 A3:3 A4:4					
Objective Question TH 211 Examples of Non-climacteric fruits (A), Lemon (B), Cherry (C), Guava (D), Grape Choose the correct answer from the options given below: 1. (A), (C) and (D) only. 2. (A), (B) and (C) only. 4. (B), (C) and (D) only. A1:1 A2:2 A3:3 A4:4			A1 · 1		
A3 : 3 A4 : 4 Ohjective Question III 2II Examples of Non-climacteric fruits (A). Lemon (B). Cherry (C). Guava (D). Grape Choose the correct answer from the options given below: 1. (A), (C) and (D) only. 2. (A), (B) and (D) only. 3. (A), (B) and (C) only 4. (B), (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4					
A4 : 4			A2:2		
A4 : 4					
Objective Question 111 211 Examples of Non-climacteric fruits (A). Lemon (B). Cherry (C). Guava (D). Grape (Choose the correct answer from the options given below: 1. (A). (C) and (D) only. 2. (A). (B) and (C) only. 3. (A). (B) and (C) only. 4. (B). (C) and (D) only. A1: 1 A2: 2 A3: 3 A4: 4			A3:3		
Objective Question 111 211 Examples of Non-climacteric fruits (A). Lemon (B). Cherry (C). Guava (D). Grape (Choose the correct answer from the options given below: 1. (A). (C) and (D) only. 2. (A). (B) and (C) only. 3. (A). (B) and (C) only. 4. (B). (C) and (D) only. A1: 1 A2: 2 A3: 3 A4: 4					
Examples of Non-climacteric fruits (A). Lemon (B). Cherry (C). Guava (D). Grape Choose the correct answer from the options given below: 1. (A), (C) and (D) only. 2. (A), (B) and (C) only. 3. (A), (B) and (C) only. 4. (B), (C) and (D) only. A1: 1 A2: 2 A3: 3 A4: 4			A4:4		
Examples of Non-climacteric fruits (A). Lemon (B). Cherry (C). Guava (D). Grape Choose the correct answer from the options given below: 1. (A), (C) and (D) only. 2. (A), (B) and (C) only. 3. (A), (B) and (C) only. 4. (B), (C) and (D) only. A1: 1 A2: 2 A3: 3 A4: 4	Ohio	entirya Ou	notion.		
Examples of Non-climacteric fruits (A). Lemon (B). Cherry (C). Guava (D). Grape Choose the correct answer from the options given below: 1. (A), (C) and (D) only. 2. (A), (B) and (D) only. 3. (A), (B) and (C) only 4. (B), (C) and (D) only. Al: 1 A2: 2 A3: 3 A4: 4				4.0	1.00
(B). Cherry (C). Guava (D). Grape Choose the <i>correct</i> answer from the options given below: 1. (A), (C) and (D) only. 2. (A), (B) and (C) only. 3. (A), (B) and (C) only. 4. (B), (C) and (D) only. A1:1 A2:2 A3:3 A4:4			Examples of Non-climacteric fruits		
(C). Guava (D). Grape Choose the <i>correct</i> answer from the options given below: 1. (A), (C) and (D) only. 2. (A), (B) and (C) only. 3. (A), (B) and (C) only. 4. (B), (C) and (D) only. A1:1 A2:2 A3:3 A4:4			(A). Lemon		
(D). Grape Choose the <i>correct</i> answer from the options given below: 1. (A), (C) and (D) only. 2. (A), (B) and (D) only. 3. (A), (B) and (C) only 4. (B), (C) and (D) only. A1:1 A2:2 A3:3 A4:4			(B). Cherry		
Choose the <i>correct</i> answer from the options given below: 1. (A), (C) and (D) only. 2. (A), (B) and (D) only. 3. (A), (B) and (C) only 4. (B), (C) and (D) only. A1:1 A2:2 A3:3 A4:4			(C). Guava		
1. (A), (C) and (D) only. 2. (A), (B) and (D) only. 3. (A), (B) and (C) only 4. (B), (C) and (D) only. A1:1 A2:2 A3:3 A4:4			(D). Grape		
2. (A), (B) and (D) only. 3. (A), (B) and (C) only 4. (B), (C) and (D) only. A1:1 A2:2 A3:3 A4:4			Choose the <i>correct</i> answer from the options given below:		
2. (A), (B) and (D) only. 3. (A), (B) and (C) only 4. (B), (C) and (D) only. A1:1 A2:2 A3:3 A4:4			1. (A), (C) and (D) only.		
4. (B), (C) and (D) only. A1:1 A2:2 A3:3 A4:4			2. (A), (B) and (D) only.		
A1:1 A2:2 A3:3 A4:4					
A2:2 A3:3 A4:4					
A2:2 A3:3 A4:4					
A3:3 A4:4			A1:1		
A3:3 A4:4			A2.2		
A4:4			A2:2		
A4:4			A3:3		
Objective Question			A4:4		
Objective Question					
	Obje	ctive Qu	nestion		

112	212		4.0	1.00
				II
		"Richmond-Lang effect" on the process of ageing and remobilization of nutrients is associated with this hormone in plants:		
		richmond-Lang effect. On the process of ageing and remobilization of nutrients is associated with this normone in plants.		
		1. Abscisic acid		
		2. Cytokinins		
		3. Gibberellins		
		4. Ethylene		
		A1:1		
		A2:2		
		A3:3		
		A3.3		
		A4:4		
Objec	tive Qu	estion		
113	213		4.0	1.00
		Identify the crop plants with "zero" or "nearly zero" CO ₂ compensation point		
		(A). Ragi, Pearlmillet, Amaranthus		
		(B). Cowpeas, Groundnut, Pineapple		
		(b). Cowpeas, Glounditus, Ameappie		
		(C). Sugarcane, Maize, Foxtailmillet		
		(D). Pineapple, Wheat, Sorghum		
		Choose the <i>correct</i> answer from the options given below:		
		The second secon		
		1. (A), (B) and (D) only		
		2. (B) and (C) only.		
		3. (A) and (C) only		
		4. (C) and (D) only		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Obiec	tive Qu	estion		
	- ~"			

ľ	114	214	4.0	1.00
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Match List-I with List-II				
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pore				
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ow				
4				

Choose the **correct** answer from the options given below:

- 1. (A) (II), (B) (IV), (C) (I), (D) (III)
- 2. (A) (IV), (B) (I), (C) (III), (D) (II)
- 3. (A) (II), (B) (III), (C) (IV), (D) (I)
- 4. (A) (II), (B) (I), (C) (III), (D) (IV)

A1:1

A2:2

A3:3

A4:4

Objective Question

115	215		4.0	1.00
		An appropriate statistical tool used to compare the differences among three or more than three groups is :		
		1. t - test		
		2. Correlations		
		3. ANOVA		
		4. Regression		
		A1:1		
		A2:2		
		A3:3		
		 A4 : 4		
Ohie	ctive Qu	lection		
116			4 0	1.00
	210	Desmotubule in the plasmodesmata joing the adjacent plant cells is formed from :	1.0	1.00
		Transvacuolar strand Endoplasmic reticulum network		
		3. Golgi apparatus		
		4. Microtubules		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Obje	ctive Qu	nestion		

7 717			
7 217	Identify the crop plants with "Albuminous" seeds :	4.0	1.0
	With the property of the property of the second of the sec		
	(A). Castor, Cashew, Coconut		
	(B). Cucumber, Tamarind, Groundnut		
	(C). Sunflower, Tomato, Papaya		
	(D). Mustard, Redgram, Pea		
	Choose the <i>correct</i> answer from the options given below:		
	1. (B) and (D) only.		
	2. (A) and (C) only		
	3. (C) and (D) only		
	4. (B) and (C) only		
	A1:1		
	A2:2		
	A3:3		
	A4:4		
ective (Question	-11	
218		4.0	1.0
	Given below are two statements:		
	Statement (I): As per "Harrington thumb rules" (ISTA rules), Viability of seeds depends on storage conditions where a) For each		
	10% decrease in seed moisture content, the storage life of the seeds is doubled; b) For each 10°F (5.6°C) decrease in seed		
	storage temperature, the storage life of seed is doubled.		
	storage temperature, the storage life of seed is doubled. Statement (II): The arithmetic sum of storage temperature in ⁰ F and the % relative humidity should not exceed 100, with no more than half the sum contributed by the temperature.		
	Statement (II): The arithmetic sum of storage temperature in ⁰ F and the % relative humidity should not exceed 100, with no		
	Statement (II): The arithmetic sum of storage temperature in ⁰ F and the % relative humidity should not exceed 100, with no more than half the sum contributed by the temperature. In light of the above statements, choose the <i>most appropriate</i> answer from the options given below.		
	Statement (II): The arithmetic sum of storage temperature in ⁰ F and the % relative humidity should not exceed 100, with no more than half the sum contributed by the temperature. In light of the above statements, choose the <i>most appropriate</i> answer from the options given below. 1. Both Statement (I) and Statement (II) are correct.		
	Statement (II): The arithmetic sum of storage temperature in ⁰ F and the % relative humidity should not exceed 100, with no more than half the sum contributed by the temperature. In light of the above statements, choose the <i>most appropriate</i> answer from the options given below. 1. Both Statement (I) and Statement (II) are correct. 2. Both Statement (I) and Statement (II) are incorrect.		
	Statement (II): The arithmetic sum of storage temperature in ⁰ F and the % relative humidity should not exceed 100, with no more than half the sum contributed by the temperature. In light of the above statements, choose the <i>most appropriate</i> answer from the options given below. 1. Both Statement (I) and Statement (II) are correct. 2. Both Statement (I) and Statement (II) are incorrect. 3. Statement (I) is correct but Statement (III) is incorrect.		
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Objective (- Arienton			1	1
119 219	Based on Distribution and Arrangement of STOMATA in leaves, N	Match List-I with List-II:		4.0	1.0
	List-I	List-II			
	(Description)	(Crop/ plant)			
	(A). Present on lower surface only	(I). Maize, Rice			
	(B). Present more on the lower surface and less on upper surface	(II). Nelumbo, Nymphaea			
	(C). Equally distributed on both upper surface and lower surface	(III). Potato, Tomato			
	(D). Present only on upper surface	(IV). Apple, Mulbery			
	Choose the correct answer from the options given below: 1. (A) - (IV), (B) - (I), (C) - (III), (D) - (II) 2. (A) - (IV), (B) - (III), (C) - (I), (D) - (II) 3. (A) - (I), (B) - (II), (C) - (IV), (D) - (III) 4. (A) - (IV), (B) - (I), (C) - (II), (D) - (III)				
	A1:1 A2:2 A3:3				
	A4:4				
Objective (Question			1	
120 220	Occurrence of "Indole Acetoldoxime Pathway" of auxin biosynthes 1. Compositae 2. Chinapodiaceae 3. Brassicaceae 4. Malvaceae	sis is characteristic to the m	embers of this family	4.0	1.00
	A1:1				
	A2:2				
	A3:3				
	A4:4				