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	DU PhD in Plan Biology N E	
Topic:- DU_J19_PHD_PMBB		
1) Which of the following stat	ements about G proteins is TRUE?	
[Question ID = 12345]		
 These bind to and are regulated These are involved in signal amp These get activated when bound These get activated when bound 	d to GTP [Option ID = 19379]	19378]
Correct Answer :- These are involved in signal am 	nplification [Option ID = 19377]	
2) Which of the following stat	ements about sporopollenin is FALSI	E?
[Question ID = 12347]		
2. Sporopollenin is one of the resis	h temperatures and strong acids [Option stant organic materials [Option ID = 1938 pores where sporopollenin is present [O in [Option ID = 19387]	6]
Correct Answer :-		
Exine has apertures called gern	n pores where sporopollenin is present [Option ID = 19385]
3) Which of the following com	pounds is a phytoalexin?	
[Question ID = 12327]		
 Resveratrol [Option ID = 19306] Calmodulin [Option ID = 19307] Ferritin [Option ID = 19308] Leghemoglobin [Option ID = 19]	
Correct Answer :- • Leghemoglobin [Option ID = 19	9305]	
4) Which of the following class in plants?	s of compounds is a natural feeding	deterrent against herbivores
[Question ID = 12330]		
 Pyrethroids [Option ID = 19318] Sterols [Option ID = 19317] Defensions [Option ID = 19319]]	

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Correct Answer :-
• Sterols [Option ID = 19317]
5) Which of the following versions of BLAST can be used to search DNA sequence against a
protein database?
[Question ID = 12336]
1. BLAST-X. [Option ID = 19344]
2. BLAST-P [Option ID = 19341]
3. BLAST-N [Option ID = 19342]
4. Mega-BLAST [Option ID = 19343]
Correct Answer :-
• BLAST-P [Option ID = 19341]
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6) Which of the following is used for measurement of intracellular Ca<sup>2+</sup> in plant cells?
[Question ID = 12332]
1. mCherry [Option ID = 19328]
2. Yellow Chameleon 3.6 [Option ID = 19326]
3. Rho-GFP [Option ID = 19327]
4. Citrulline [Option ID = 19325]
Correct Answer :-

    Citrulline [Option ID = 19325]

7) Which of the following is a methyl group donor?
[Question ID = 12317]
1. Azacytidine [Option ID = 19268]
2. 5-methyl uracil [Option ID = 19267]
3. Methionine [Option ID = 19265]
4. S-adenosylmethionine [Option ID = 19266]
Correct Answer :-
• Methionine [Option ID = 19265]
8) Which of the following is a major component of RISC?
[Question ID = 12353]
1. AGO [Option ID = 19409]
2. HYL1 [Option ID = 19410]
3. HEN1. [Option ID = 19412]
4. Dicer [Option ID = 19411]
Correct Answer :-
  AGO [Option ID = 19409]
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Pseud	Instranker's abolice is a protein www.FirstRanker.comse responsive www.FirstRanker.co
[Que	estion ID = 12328]
2. Sy: 3. Ha	lygalacturonase [Option ID = 19310] stemin [Option ID = 19309] rpin [Option ID = 19312] AP kinase [Option ID = 19311]
	ect Answer :- stemin [Option ID = 19309]
10)	Which of the following is a small RNA?
[Que	stion ID = 12314]
2. hn 3. rRl	RNA [Option ID = 19253] RNA [Option ID = 19256] NA [Option ID = 19255] RNA [Option ID = 19254]
Corre	ect Answer :-
• mF	RNA [Option ID = 19253]
	tochrome b ₆ f [Option ID = 19260] P synthase [Option ID = 19259]
3. PS	II [Option ID = 19258] I [Option ID = 19257]
3. PS 4. PS	
3. PS 4. PS Corre • PS	I [Option ID = 19257] ect Answer :-
3. PS 4. PS Corre • PS	I [Option ID = 19257] ect Answer :- I [Option ID = 19257]
 3. PS 4. PS Corre PS 12) [Que 1. Lai 2. Ye 3. Pla 	I [Option ID = 19257] ect Answer :- I [Option ID = 19257] Which of the following vectors can accommodate the largest DNA insert?
3. PS 4. PS Corre • PS 12) [Que 1. Lan 2. Ye 3. Pla 4. Co	I [Option ID = 19257] ect Answer :- I [Option ID = 19257] Which of the following vectors can accommodate the largest DNA insert? estion ID = 12351] mbda phage [Option ID = 19403] ast artificial chromosome. [Option ID = 19404] asmid [Option ID = 19401]
3. PS 4. PS Corre • PS 12) [Que 1. Lat 2. Ye 3. Pla 4. Co	I [Option ID = 19257] ect Answer :- I [Option ID = 19257] Which of the following vectors can accommodate the largest DNA insert? estion ID = 12351] mbda phage [Option ID = 19403] ast artificial chromosome. [Option ID = 19404] asmid [Option ID = 19401] smid [Option ID = 19402]
3. PS 4. PS Corre • PS 12) [Que 1. Lan 2. Ye 3. Pla 4. Co Corre • Pla	I [Option ID = 19257] ect Answer :- I [Option ID = 19257] Which of the following vectors can accommodate the largest DNA insert? estion ID = 12351] mbda phage [Option ID = 19403] ast artificial chromosome. [Option ID = 19404] asmid [Option ID = 19401] smid [Option ID = 19402] ect Answer :-
3. PS 4. PS Corre • PS 12) [Que 1. Lai 2. Ye 3. Pla 4. Co Corre • Pla	I [Option ID = 19257] ect Answer :- I [Option ID = 19257] Which of the following vectors can accommodate the largest DNA insert? estion ID = 12351] mbda phage [Option ID = 19403] ast artificial chromosome. [Option ID = 19404] asmid [Option ID = 19401] smid [Option ID = 19402] ect Answer :- asmid [Option ID = 19401]

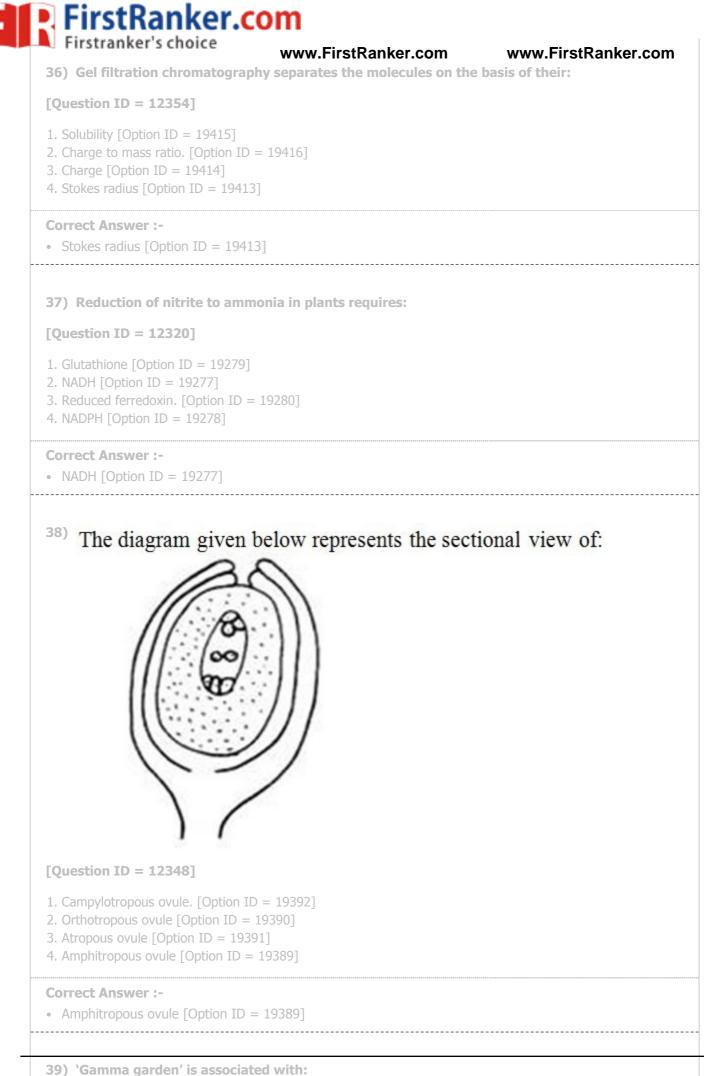
Correct Answer :- H2DCFDA [Option ID = 19373] 14) Which region of the gene is under relatively high selective pressure during evolution? [Question ID = 12335] S'UTR [Option ID = 19370] Correct Answer :- S'UTR [Option ID = 19337] 15) Which type of kinase is involved in two-component signaling system? [Question ID = 12342] 1. Histidine kinase (Option ID = 19367] 2. Serine/Treenine kinase (Option ID = 19365] 2. Serine/Treenine kinase (Option ID = 19365] 16) Which one of the following is the botanical name of oil palm? [Question ID = 12334] 1. Green Answer :- Serine/Treenine Serine/Treenine Kinase [Option ID = 19365] 16) Which one of the following is the botanical name of oil palm? [Question ID = 12334] 3. Greene (Option ID = 19335] 3. Better synthesis (Option ID = 19335] 4. Carthamus thronus (Option ID = 19333] 4. Carthamus thronus (Option ID = 19333] 4. Carthamus thronus (Option ID = 19335] 17) Which polymer is deposited as an early response to pathogen attack in plants? [Question ID = 12326] 1. Callose (Option ID = 19301] 2. Startype (Option ID = 19301] 4. Amylose (Option ID = 19303] Correct Answer :- Elasis guineesis (Option ID = 19333] 	J. FIDETDAN (SEC): FD Q (SP 373] 4. Fura-2 [Option ID = 19374]	www.FirstRanker.com	www.FirstRanker.com
[Question ID = 12335] 1. S' UTR [Option ID = 19337] 2. Intron [Option ID = 19339] 4. 3' UTR [Option ID = 19338] Correct Answer :- • 5' UTR [Option ID = 19337] 15) Which type of kinase is involved in two-component signaling system? [Question ID = 12342] 1. Histline kinase [Option ID = 19367] 2. Serine/threonine kinase [Option ID = 19365] 3. Arginine kinase [Option ID = 19365] 2. Serine/threonine kinase [Option ID = 19365] 2. Serine/threonine kinase [Option ID = 19365] 16) Which one of the following is the botanical name of oil palm? [Question ID = 12334] 1. Okes curapezer [Option ID = 19335] 2. Genes nuclear (Option ID = 19333] 4. Carthamusti intorius [Option ID = 19333] 4. Carthamusti [Option ID = 19333] 4. Carthamusti [Option ID = 19333] 7) Which polymer is deposited as an early response to pathogen attack in plants? [Question ID = 12326] 1. Callose [Option ID = 19304] 2. Celuluse [Option ID = 19301] 4. Arryose [Option ID = 19303]			
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 2. Intron [Option ID = 19340] 3. CDS [Option ID = 19339] 4. 3' UTR [Option ID = 19337] Correct Answer :- • 5' UTR [Option ID = 19337] 15) Which type of kinase is involved in two-component signaling system? [Question ID = 12342] 1. Histidine kinase [Option ID = 19367] 2. Serine/threonine kinase [Option ID = 19365] 3. Arginine kinase [Option ID = 19366] Correct Answer :- • Serine/threonine kinase [Option ID = 19365] 16) Which one of the following is the botanical name of oil palm? [Question ID = 12334] 1. Olea europeara (Option ID = 19335] 3. Earsing (Option ID = 19335] 3. Earsing (Option ID = 19333] 4. Carthamus tintorius [Option ID = 19333] 4. Carthamus tintorius [Option ID = 19333] 17) Which polymer is deposited as an early response to pathogen attack in plants? [Question ID = 12326] 1. Callose [Option ID = 19304] 2. Cellulose [Option ID = 19302] 3. Stachyose [Option ID = 19303] 	[Question ID = 12335]		
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 3. <i>Elaeis guineensis</i> [Option ID = 19333] 4. Carthamus tintorius [Option ID = 19336] Correct Answer :- <i>Elae is guineensis</i> [Option ID = 19333] 17) Which polymer is deposited as an early response to pathogen attack in plants? [Question ID = 12326] 1. Callose [Option ID = 19304] 2. Cellulose [Option ID = 19302] 3. Stachyose [Option ID = 19301] 4. Amylose [Option ID = 19303] 			
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1. Callose [Option ID = 19304] 2. Cellulose [Option ID = 19302] 3. Stachyose [Option ID = 19301] 4. Amylose [Option ID = 19303]		as an earry response to pathogen	
 Cellulose [Option ID = 19302] Stachyose [Option ID = 19301] Amylose [Option ID = 19303] 			
4. Amylose [Option ID = 19303]			
	3. Stachyose [Option ID = 19301]		
Correct Answer :-			
• Stachyose [Option ID = 19301]			

1	Firstranker's choice argest provide FirstRanker.com www.FirstRanker.com
E	Question ID = 12321]
2	I. India [Option ID = 19284] 2. Egypt [Option ID = 19283] 3. Turkey [Option ID = 19282] 4. South Korea [Option ID = 19281]
	Correct Answer :- South Korea [Option ID = 19281]
1	.9) In nature, cleistogamous flowers are:
[Question ID = 12325]
2	 Insect pollinated [Option ID = 19298] Wind pollinated [Option ID = 19297] Self pollinated [Option ID = 19299] Bird pollinated. [Option ID = 19300]
	Correct Answer :- Wind pollinated [Option ID = 19297]
2	20) SH2 (Src Homology 2) domain specifically binds to:
[Question ID = 12339]
2	1. Phosphorylated tyrosine residues [Option ID = 19354] 2. Phosphorylated serine residues [Option ID = 19353]
	3. Ca ²⁺ . [Option ID = 19356] 4. GDP [Option ID = 19355]
C	Correct Answer :-
•	Phosphorylated serine residues [Option ID = 19353]
2	21) Glutathione, which consists of glycine, glutamate and cysteine, is synthesized:
	Question ID = 12318]
1	I. without a DNA template. [Option ID = 19272]
	2. using a gene having 9 base coding sequence. [Option ID = 19269]
	3. using a gene having 15 base coding sequence. [Option ID = 19271] 4. using a gene having 12 base coding sequence. [Option ID = 19270]
C	Correct Answer :-
•	using a gene having 9 base coding sequence. [Option ID = 19269]
2	22) In an animal cell, programmed cell death (apoptosis) is morphologically defined as:
[Question ID = 12343]
	L Lysis of lysosomes and Golgi apparatus. [Option $ID = 19372$]
2	2. Disruption of plasma membrane [Option ID = 19371]

Correct Answer :-	
 Degradation of endomembranes [Option ID = 19369] 	
23) In a type of apomixis known as adventive embryony, embryo	os develop directly from the
[Question ID = 12319]	
1. accessory embryo sacs in the ovule. [Option $ID = 19276$]	
2. nucellus or integuments. [Option ID = 19274]	
 zygote. [Option ID = 19273] synergids or antipodals in an embryo sac. [Option ID = 19275] 	
Correct Answer :-	
• zygote. [Option ID = 19273]	
24) Development of zygote without fertilization is:	
[Question ID = 12350]	
1. Regeneration [Option ID = 19397]	
2. Proliferation. [Option ID = 19400]	
 3. Embryogenesis [Option ID = 19398] 4. Parthenogenesis [Option ID = 19399] 	
·····	
Correct Answer :-	
Regeneration [Option ID = 19397]	
25) With reference to the 'protein substitution alignment scoring stands for:	g matrices', the term `PAM60'
	g matrices', the term `PAM60'
stands for: [Question ID = 12333]	g matrices', the term `PAM60'
stands for:	g matrices', the term 'PAM60'
<pre>stands for: [Question ID = 12333] 1. Permanent Accepted Mutation 60 [Option ID = 19329] 2. Promiscuously Accepted Mutation 60. [Option ID = 19332] 3. Preferred Accepted Mutation 60 [Option ID = 19330]</pre>	g matrices', the term 'PAM60'
<pre>stands for: [Question ID = 12333] 1. Permanent Accepted Mutation 60 [Option ID = 19329] 2. Promiscuously Accepted Mutation 60. [Option ID = 19332]</pre>	g matrices', the term 'PAM60'
<pre>stands for: [Question ID = 12333] 1. Permanent Accepted Mutation 60 [Option ID = 19329] 2. Promiscuously Accepted Mutation 60. [Option ID = 19332] 3. Preferred Accepted Mutation 60 [Option ID = 19330]</pre>	g matrices', the term 'PAM60'
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<pre>stands for: [Question ID = 12333] 1. Permanent Accepted Mutation 60 [Option ID = 19329] 2. Promiscuously Accepted Mutation 60. [Option ID = 19332] 3. Preferred Accepted Mutation 60 [Option ID = 19330] 4. Point Accepted Mutation 60 [Option ID = 19331]</pre>	g matrices', the term 'PAM60'
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1. 2.	Question ID = 12309]
	from 3' to 5'direction. [Option ID = 19234] from 5' to 3' direction. [Option ID = 19233] at 5' end in 5' to 3' direction and at 3' end in 3' to 5' direction. [Option ID = 19236] in both directions. [Option ID = 19235]
	orrect Answer :- from 5' to 3' direction. [Option ID = 19233]
28	8) Deficiency of which enzyme will affect availability of NADPH?
[0	Question ID = 12316]
2. 3.	a-keto glutarate dehydrogenase [Option ID = 19263] Glucose 6-phosphate dehydrogenase [Option ID = 19261] Citrate synthase [Option ID = 19262] Succinate dehydrogenase [Option ID = 19264]
	orrect Answer :- Glucose 6-phosphate dehydrogenase [Option ID = 19261]
29	9) Who is the first 'Lokpal' of India?
[0	Question ID = 12338]
2. 3.	. Vinod Rai [Option ID = 19352] . Ranjan Gogoi [Option ID = 19350] . Deepak Mishra [Option ID = 19351] . Pinaki Chandra Ghose [Option ID = 19349]
	orrect Answer :- Pinaki Chandra Ghose [Option ID = 19349]
3(0) In which country, 'Yellow river' was associated with the ancient agriculture?
[0	Question ID = 12322]
2. 3.	Australia [Option ID = 19288] Iran [Option ID = 19285] Egypt [Option ID = 19286] China [Option ID = 19287]
	orrect Answer :- Iran [Option ID = 19285]
3:	1) Crossing of F1 heterozygous with the homozygous recessive parent is known as:
[0	Question ID = 12352]

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Correct Ansv	ver :-			
Test cross	Option ID = 19405]			
32) In the c	AMP pathway, the	G protein stimulates		
[Question ID	= 12340]			
 Phospholipa Phospholipa 	rosine kinase. [Option se D [Option ID = 19 se C [Option ID = 19 clase [Option ID = 19	359] 357]		
Correct Ansv	ver :-			
Phospholipa	ase C [Option ID = 1	9357]		
33) Klenow activity:	fragment of DNA p	olymerase I of Escher	richia coli lacks	s the following enzymatic
[Question ID	= 12307]			
2. 5'->3' exon 3. 3'->5' exon	nerase [Option ID = 1 uclease [Option ID = uclease. [Option ID = [Option ID = 19228]	19226]		
 Correct Answ 5'->3' polyr 	ver :- nerase [Option ID =	19225]		
34) Transge expression o		nst viral infection in	plants has beer	achieved by the over-
[Question ID	= 12331]			
1. Pathogenes	is-related protein [Op	tion ID = 19321]		
2. Glucanase [Option ID = 19323]			
	n. [Option ID = 19324 nscriptase inhibitors [
Correct Ansv	ver :-			
Pathogenes	is-related protein [O	ption ID = 19321]		
35) In euka	yotes, genes start	with		
[Question ID				
2. exons. [Opt 3. introns. [Op	ons or introns. [Optio ion ID = 19237] tion ID = 19238] se. [Option ID = 1924			
Correct Ansv	ver :-			



FirstRanker.com www.FirstRanker.com www.FirstRanker.com 1. Growing plantlet produced by tissue culture [Option ID = 19241] 2. Growing genetically engineered plants on trial basis [Option ID = 19243] 3. Eradicating pathogens from infected plants [Option ID = 19242] 4. Mutation breeding for crop improvement. [Option ID = 19244] **Correct Answer :-**• Growing plantlet produced by tissue culture [Option ID = 19241] 40) 'Norin 10' is a cultivar of: [Question ID = 12323] 1. Maize [Option ID = 19290] 2. Rice [Option ID = 19289] 3. Wheat [Option ID = 19291] 4. Sorghum. [Option ID = 19292] **Correct Answer :-**• Rice [Option ID = 19289] 41) A phenomenon in which second mutation that nullifies the effect of first mutation in a gene resulting in restoration of the wild type phenotype is known as: [Question ID = 12306] 1. synthetic enhancement. [Option ID = 19224] 2. Intragenic suppression [Option ID = 19222] 3. gene conversion [Option ID = 19223] 4. Intergenic complementation [Option ID = 19221] **Correct Answer :-** Intergenic complementation [Option ID = 19221] 42) At steady state level, mRNAs of a gene in dark and light are equal, but in a run-on assay mRNA level is higher by two folds in light. Keeping this outcome in view, which of the following is correct? [Question ID = 12313] 1. mRNA is destabilized in dark [Option ID = 19250] 2. mRNA is destabilized in light [Option ID = 19252] 3. mRNA is stabilized in light [Option ID = 19251] 4. mRNA is stabilized in dark [Option ID = 19249] **Correct Answer :-** mRNA is stabilized in dark [Option ID = 19249] 43) Gene promoters in eukaryotes: [Question ID = 12308] Ide TATA hov [Ontion ID

2. include TATA box only in presence of CAAT box [Option ID = 19232] www.FirstRanker.com

4. do not	ARKET'S Choice [Option $\mathbf{W} \mathbf{w} \mathbf{w}$] FirstRand	ker.com www.FirstRanker.co
Correct A	nswer :-	
• always	nclude TATA box [Option ID = 19229]	
44) Fibro	us thickenings of hygroscopic nature are fo	ound in which part of the anther wall?
[Questio	ID = 12349]	
1. Tapetu	n [Option ID = 19396]	
	is [Option ID = 19395]	
	ayers [Option ID = 19393] cium [Option ID = 19394]	
• Middle	nswer :- ayers [Option ID = 19393]	
·····		
45) Peci	iarity of RNA polymerase III function is that	at during transcription it can bind:
-	ID = 12346]	an anning managriphion is ann bhun
	t bind to promoters at all. [Option ID = 19384] r sequences located upstream of the coding sequ	uences [Option ID = 19382]
	r sequences located in coding regions of genes [
4. Promot	rs located in 3'UTR [Option ID = 19383]	
Correct A	nswer :-	
Promot	r sequences located in coding regions of genes	[Option ID = 19381]
46) The	esolution of an electron microscope is:	
[Questio	ID = 12312]	
1. 200 nm	[Option ID = 19248]	
2. 0.10 nn	[Option ID = 19245]	
	[Option ID = 19247] [Option ID = 19246]	
т. 0.10 hii	נסדביבי – ביביני	
Correct A		
• 0.10 nr	[Option ID = 19245]	
47) The	Position Specific Scoring Matrix' or PSSM ca	an be used to define:
10	ID = 12337]	
Questio	unction [Option ID = 19347]	
	Jamain [Ontion ID 10246]	
 Protein Protein 	domain [Option ID = 19346]	
 Protein Protein Gene st 	ucture [Option ID = 19345]	
 Protein Protein Gene st 	ucture [Option ID = 19345] nction. [Option ID = 19348]	

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1. 2. 3.	ABR [Option ID = 19363] ABP [Option ID = 19362] TIR. [Option ID = 19364] PYR/PYL/RCAR [Option ID = 19361]
	rrect Answer :- PYR/PYL/RCAR [Option ID = 19361]
) The `gene-for-gene' concept related to the plant-pathogen interaction was proposed by or while working with
[Q	uestion ID = 12329]
2. 3.	potato. [Option ID = 19313] wheat. [Option ID = 19316] maize. [Option ID = 19314] flax. [Option ID = 19315]
	rrect Answer :- potato. [Option ID = 19313]
) You are required to identify the differentially expressed genes in a transgenic versus no nsformed rice plant. Which of the following techniques would you employ?
[Q	uestion ID = 12305]
2. 3.	RAPD. [Option ID = 19220] Transcriptome analysis [Option ID = 19219] Genome sequencing [Option ID = 19217] ChIP assay [Option ID = 19218]
Co	rrect Answer :-