

	DU MSc Plant Molecular Biology N Biotechnology
T DU 110 MCC	DMDD
Topic:- DU_J18_MSC	_PMB8
1) Which of the follow	ing microscopy techniques is used for live cell imaging?
[Question ID = 52319]	1
2. Atomic force microscop 3. Phase contrast microsc	
Correct Answer :- • Phase contrast microse	capy [Option ID = 89270]
[Question ID = 52271]	ving is a selection marker gene?
1. nptII [Option ID = 890 2. gfp [Option ID = 8907	
3. Luciferase [Option ID = 4. gus [Option ID = 8907	
Correct Answer :-	
 nptII [Option ID = 890 	
 P(I/DNA polymerase. [<i>Coli</i> DNA polymerase <i>Taq</i> DNA polymerase. [Deep Vent DNA polymerase. [: [Option ID = 89(29]
Correct Answer :-	
E. col/DNA polymeras	
	terials Research Station is located in [Question ID = 52349]
1. Mohali. [Option ID = 8 2. Chandigarh. [Option ID 3. Panipat. [Option ID = 6 4. New Delhi. [Option ID	b = 89390] 89388]
Correct Answer :-	
New Delhi. [Option ID	= 89389]
5) Topoisomerases an	e involved in determining [Question ID = 52280]
2. supercoiling of DNA. [C	DNA. [Option ID = 89113]
Correct Answer :-	
 supercoiling of DNA. [(Dption ID = 89114]
	he family [Question ID = 52360]
1. Anacradiaceae [Option	ID = 89432]

 Mahacase [Option ID = 89434] Pippingtic archid roots are a form of [Question ID = 52324] proprosts. [Option ID = 89208] extering roots. [Option ID = 89208] 3. A rent orbots. [Option ID = 89208] a rent orbots. [Option ID = 89309] t. hardback. [Option ID = 89309] t. Sherr chiotide [Option ID = 89309] A rentice (Option ID = 89309] t. Sherr chiotide [Option ID = 89309] t. Sherr chiotide [Option ID = 89309] A rentice (Option ID = 89309] t. A rennotal [Option ID = 89309] t. A rennotal [Option ID = 89318] Correct Answer :- t. A rennotal [Option ID = 89318] Do The width of DAA is [Question ID = 52325] t. A rennotal [Option ID = 89318] Correct Answer :- t. and [Option ID = 89318] Correct Answer :- t. and [Option ID = 89329] t. Annon [Optio	ver :-
 1. paratilic roots. [Option ID = 89290] 2. prop. prots. [Option ID = 89291] 3. aristl roots. [Option ID = 89281] Correct Answer :- a. enter incode. 9. 2,4-0 is commercially used as a [Question ID = 53238] 1. pesticide. [Option ID = 89208] 80 2,4-0 is commercially used as a [Question ID = 53238] 1. pesticide. [Option ID = 89306] 3. herbide. [Option ID = 89306] 4. fungide. [Option ID = 89306] 9. herbide. [Option ID = 89306] 4. fungide. [Option ID = 89306] 9. Haber-Bosch made a significant contribution in the synthesis of which if the following chemical compounds? [Question II = 54328] 9. Haber-Bosch made a significant contribution in the synthesis of which if the following chemical compounds? [Question II = 54408] 9. Haber-Bosch made a significant contribution in the synthesis of which if the following chemical compounds? [Question II = 54408] 9. Mater-Bosch ID = 89108] 1. Shere chickie [Option ID = 89108] 2. Do Angettom [Option ID = 89085] 2. Do Angettom [Option ID = 89085] 2. Do Angettom [Option ID = 89208] 2. Do Angettom ID = 89208] 2. Ange	[Option ID = 89434]
2. prop roots. [Option ID = 89299] 3. stratage roots. [Option ID = 89288] 4. strange roots. [Option ID = 89288] 50 2,4-0 is commercially used as a [Question ID = 52328] 1. pesticide. [Option ID = 89306] 2. hetricide. [Option ID = 89306] 4. fungine. [Option ID = 89306] 9. Haber-Basch made a significant contribution in the synthesis of whith if the following chemical compounds? [Question I 1. Sher: chick [Option ID = 89306] 9. Haber-Basch made a significant contribution in the synthesis of whith if the following chemical compounds? [Question I 1. Sher: chick [Option ID = 89306] 9. Haber-Basch made a significant contribution in the synthesis of whith if the following chemical compounds? [Question I 1. Sher: chick [Option ID = 89309] 2. Mercuit code [Option ID = 89309] 3. Sulptar densite [Option ID = 89309] Correct Answer :- 4. Ammonia [Option ID = 89189] 10. The width of DNA is [Question ID = 69229] 1. Journ [Option ID = 89085] 2. 200 Apptrom [D = 89085] 2. Journel [Option ID = 89085] 1. Journ [Option ID = 89085] 1. Journ [Option ID = 89085] 1. Journe [Option ID = 89293] 2. Jan. [Option ID = 89293] 1. collenchyma. [Option ID = 89293] 2. pts. [Option ID = 89293] 2. pts. [Option ID = 89293] 2. pts. [Option ID = 89293] 3. pts. [Option ID = 89293]	orchid roots are a form of [Question ID = 52324]
2. prop roots. [Option ID = 89299] 3. stratage roots. [Option ID = 89288] 4. strange roots. [Option ID = 99288] 50 24-0 is commercially used as a [Question ID = 52328] 1. pesticide. [Option ID = 69306] 2. hetricide. [Option ID = 69306] 3. hetricide. [Option ID = 69306] 4. fungice. [Option ID = 69306] 9. Maker-Bosch made a significant contribution in the synthesis of whiteh of the following chemical compounds? [Question I 1. Sker chlorin D = 69306] 3. Subption ID = 69306] 9. Maker-Bosch made a significant contribution in the synthesis of whiteh of the following chemical compounds? [Question I 3. Sker chlorin D = 69309] 4. Ammonia [Option ID = 69309] 3. Subption disord [Option ID = 69309] 4. Ammonia [Option ID = 69319] 4. Ammonia [Option ID = 69319] 5. Sker chlorin D = 69319] 5. Sker chlorin D = 69319] 1. Sker chlorin D = 69318] 10) The width of DNA is [Question ID = 63229] 1. 2 om. [Option ID = 69305] 2. 200 Apption D = 69305] 1. 2 om. [Option ID = 69329] 1. collenchyma. [Option ID = 69329] 2. pts. [Option ID = 69329] 2. pts. [Option ID = 69329] 2. pts. [Option ID = 69329] 3. pts. [Option ID = 69329] 5. pts. [Option ID = 69329] 3. pts. [Option ID = 69329] 3. pts. [Option ID = 69329] 3. pts. [Option ID = 69329] 4. scherick. [Option ID = 69329] 3. pts. [Optio	ts. [Option ID = 89290]
4. storage roots. [Option ID = 89281] Cerrect Answer :- • actial roots. [Option ID = 89208] • perticide. [Option ID = 89205] • herbicide. [Option ID = 89306] • herbicide. [Option ID = 89308] • Amornia [Option ID = 89189] • Amornia [Option ID = 89189] • Amornia [Option ID = 89188] • Amornia [Option ID = 89188] • Amornia [Option ID = 89188] • Different ID = 89188] • Different ID = 89188] • Different ID = 89188] • Different ID = 89306] • Different I	
Correct Answer :- • aerial roots. [Option ID = 89288]	
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<pre>8) 2,4-0 is commercially used as a [Question ID = 52328] 1. petitide. [Option ID = 89305] 2. herbicide. [Option ID = 89305] 4. fungicle. [Option ID = 89305] 5. herbicide. [Option ID = 89305] 9) Haber-Basch made a significant contribution in the synthesis of which at the following chemical compounds? [Question II 1. Sher diloide [Option ID = 89109] 9. Subprt dioide [Option ID = 89109] 1. Shiptr dioide [Option ID = 89109] 1. Jammonia [Option ID = 89188] 10) The width of DNA is [Question ID = 52279] 1. 2 nm. [Option ID = 89085] 2.00 Angstrom. [Option ID = 89085] 1. John [Option ID = 89292] 2. pits [Option ID = 89292] 3. Subplice [Option ID = 89294] 3. scheridit, [Option ID = 89292] 3. Which coencryme is required for reduction of glutathione? [Question ID = 52285] 3. NADPH [Option ID = 89246] 3. Subplice [Option ID = 89246] 3. Subplice</pre>	
[Question ID = \$2228] 1. pestidde. [Option ID = 89306] 2. horbitode. [Option ID = 89307] Correct Answer :- • horbicide. [Option ID = 89306] 9) Haber-Bosch made a significant contribution in the synthesis of which of the following chemical compounds? [Question II 1. Silver chloride [Option ID = 89190] 2. Mercuric oxide [Option ID = 89191] 4. Annoral [Option ID = 89193] 2. Annoral [Option ID = 89183] Correct Answer :- • Annoral [Option ID = 89188] 10) The width of DNA is [Question ID = 52273] 1. 2 cm. [Option ID = 89085] 2 200 Angstrom. [Option ID = 89085] 2 201 Correct Answer :- • 2 cm. [Option ID = 89085] 2 correct Instruct in Pears is due to [Question ID = 52325] 1. Collenchyma. [Option ID = 89293] 2. phs. (Option ID = 89292) 2. thends. [Option ID = 89292] 2. thends. [Option ID = 89292] 2. Which coensyme is required for reduction of g	. [Option ID = 89288]
[Question ID = \$2228] 1. pesticide. [Option ID = 89306] 2. herbick. [Option ID = 89307] Correct Answer :- • herbicide. [Option ID = 89306] 9) Haber-Bosch made a significant contribution in the synthesis of which of the following chemical compounds? [Question II 1. Silver chloride [Option ID = 89109] 2. Marcine [Option ID = 89199] 2. Marcine (Option ID = 89199] 3. Subput dioxide [Option ID = 89199] 3. Ammonic [Option ID = 89189] Correct Answer :- • Ammonic [Option ID = 89188] Correct Answer :- • Ammonic [Option ID = 89188] 1. Splor in D = 89188] Correct Answer :- • Ammonic [Option ID = 89085] 2. 200 Angstrom. [Option ID = 89085] 2. 201 Angstrom :- • 2 rm. [Option ID = 89085] 1. The gritty texture in Pears is due to [Question ID = 52325] 1. Collenchyma. [Option ID = 89293] 2. phs. [Option ID = 89292] 2. The column D = 89292] 2. Which coensyme is required for reduction of glutathione? [Question ID = 52288] 1	ommercially used as a
<pre>1 pesticide. [Option ID = 69305] 2. herbicide. [Option ID = 69305] 3. florigen. [Option ID = 89307] Correct Answer :- * herbicide. [Option ID = 89306] 9) Haber-Bosch made a significant contribution in the synthesis of which of the following chemical compounds? [Question II . SNer chloride [Option ID = 89189] 2. Mercuric coide (Option ID = 89189] 3. Sulphur dioxide [Option ID = 89189] 3. Sulphur dioxide [Option ID = 89189] 3. Sulphur dioxide [Option ID = 89189] 4. Ammorsi [Option ID = 89188] Correct Answer :- * Ammonia [Option ID = 89188] Correct Answer :- * Ammonia [Option ID = 89188] Correct Answer :- * Ammonia [Option ID = 89188] Correct Answer :- * 200 Angstrom. (Option ID = 89005] 3. 3. A mm. [Option ID = 89085] 1. Omerchyma. [Option ID = 89085] 1. Correct Answer :- * 2 nm. [Option ID = 89085] 1. Correct Answer :- * 3. Ann. [Option ID = 89085] 1. Correct Answer :- * 4. Anne. [Option ID = 89085] 1. Correct Answer :- * 4. Anne. [Option ID = 89085] 1. Correct Answer :- * 5. Selection. [Option ID = 89282] 2. Selection. [Option ID = 89282] 2. Selection. [Option ID = 89282] 3. Selection. [Option ID = 89282] 3. The gritty texture in Pears is due to [Question ID = 52325] 3. Correct Answer :- * 4. Selectids. [Option ID = 89282] 3. The diption ID = 89282] 3. The diption ID = 89282] 3. The diption ID = 89282] 3. Selectids. [Option ID = 89282] 3. NADPH [Option ID = 89246] 3</pre>	
<pre>2. herbicide. [Option ID = 89306] 3. florigen. [Option ID = 89307] Correct Answer :- * herbicide. [Option ID = 89306] 9) Haber-Bosch made a significant contribution in the synthesis of which of the following chemical compounds? [Question I 1. Silver chloride [Option ID = 89189] 9. Mercuric code [Option ID = 89190] 3. Sulptur dioxide [Option ID = 89193] 4. Annonia [Option ID = 89188] Correct Answer :- * Armonia [Option ID = 89188] 10) The width of DNA is [Question ID = \$2223] 1. 2 nm. [Option ID = 89085] 2. 200 Augstrom. [Option ID = 89085] 3. 3.4 nm. [Option ID = 89085] 4. 0.24 fm. [Option ID = 89085] 11) The gritty texture in Pears is due to [Question ID = 52325] 1. collenchyma. [Option ID = 89285] 1. tarbelis. [Option ID = 89285] 4. tarbelis. [Option ID = 89293] 2. pits. [Option ID = 89293] 4. scherids. [Option ID = 89293] 1. tarbelis. [Option ID = 89293] 4. scherids. [Option ID = 89294] 4. scherids. [Option ID = 89294] 4. scherids. [Option ID = 89294] 4. scherids. [Option ID = 89294] 5. tarbelis. [Op</pre>	
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12) Which coenzyme is required for reduction of glutathione? [Question ID = 52288] 1. NADPH [Option ID = 89146] 2. FAD [Option ID = 89145]	
1. NADPH [Option ID = 89146] 2. FAD [Option ID = 89145])ption ID = 89292]
2. FAD [Option ID = 89145]	penzyme is required for reduction of glutathione? [Question ID = 52288]
2. FAD [Option ID = 89145]	tion ID = 89146]
4. NADH [Option ID = 89144]	
Correct Answer :-	
 NADPH [Option ID = 89146] 	rer :-
13) Which country is the largest producer of chickpea? [Question ID = 52298] WWW.FirstRanker.com	

Turkey [Option ID = 89186]	
3. India [Option ID = 89185]	
4. Israel [Option ID = 89184]	
Correct Answer :-	
 India [Option ID = 89185] 	
Which country is the largest produ	cer of wheat? [Question ID = 52296]
1. Mexico [Option ID = 89177]	
2. USA [Option ID = 89176] 3. India [Option ID = 89179]	
4. China [Option ID = 89178]	
Correct Answer :-	
 China [Option ID = 89178] 	
 QTL represents following: [Questic 	in ID = 52270]
1. Qualitative trait locus [Option ID = 89075	
 Quantitative trade locus [Option ID = 890 Quantitative trait locus [Option ID = 8907 	
4. Quantitative test locus [Option ID = 8907	
Correct Answer :-	
 Quantitative trait locus [Option ID = 890 	
The genetic term 'LOD Score' is rel	ated to [Question ID = 52350]
1. Gene linkage. [Option ID = 89394]	
 Gene mutation. [Option ID = 89395] Gene dominance. [Option ID = 89393] 	
4. Epistasis. [Option ID = 89392]	
Correct Answer :- • Gene linkage. [Option ID = 89394]	
1. Wheat [Option ID = 89463] 2. Tomato [Option ID = 89462] 3. Arabidopsis [Option ID = 89461] 4. Rice [Option ID = 89460]	of the plant was carried out first? [Question ID = 52367]
Correct Answer :-	
Arabidopsis [Option ID = 89461]	
18) The popular molecular biology abb	reviation NGS stands for [Question ID = 52346]
1. Next Generation Sequencing. [Option ID :	= 89379]
2. Next Generation Synthesis. [Option ID =	
 Novel Gene Sequences. [Option ID = 893 New Gene Sequences. [Option ID = 8937 	
Correct Answer :- • Next Generation Sequencing. [Option ID	= 893791
19) Root hairs are found in which of th	e following areas?
[Question ID = 52327]	
 Root cap [Option ID = 89300] Zone of cell elongation [Option ID = 8930 	
 Zone of cell elongation [Option ID = 8930 Zone of cell division [Option ID = 89303] 	
4. Zone of cell maturation [Option ID = 893	
Correct Answer :-	

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 protein and protein. [Option ID = 89416] 	
 DNA and DNA. [Option ID = 89419] 	
3. DNA and proteins. [Option ID = 89417]	
4. DNA and RNA. [Option ID = 89418]	
Correct Answer :-	
 DNA and proteins. [Option ID = 89417] 	
21) Anthropogenic extinction occurs due to	[Question ID = 52330]
1. floods. [Option ID = 89313]	
2. tectonic shifts. [Option ID = 89314]	
 earthquakes. [Option ID = 89312] human activities. [Option ID = 89315] 	
Correct Answer :-	
 human activities. [Option ID = 89315] 	
22) In an experiment, cell culture was supp peptide will be labelled?	plied with ³⁵ S radioisotope to label the newly synthesized peptides. Among the following
[Question ID = 52309]	
 Glycine-Cysteine-Valine-Proline [Option ID = 8! Tryptophan-Serine-Threonine-Histidine [Option 	
3. Arginine-Glycine-Tryptophan-Proline. [Option II	D = 89231]
4. Isoleucine-Valine-Tyrosine-Tryptophan [Option	
Correct Answer :-	
Glycine-Cysteine-Valine-Proline [Option ID = 1	89228]
1. Na ⁺ channel. [Option ID = 89458] 2. HCO ³⁺ channel. [Option ID = 89457] 3. K ⁺ channel. [Option ID = 89456] 4. NO ^{3 -} channel. [Option ID = 89459]	
Correct Answer :-	
 K⁺ channel. [Option ID = 89456] 	
24) Which plant organelle exhibit highest a	acid phosphatase activity? [Question ID = 52315]
1. Nuclei [Option ID = 89252]	
2. Mitochondria [Option ID = 89255]	
3. Peroxisomes [Option ID = 89254] 4. Vacuoles [Option ID = 89253]	
Correct Answer :-	
 Vacuoles [Option ID = 89253] 	
25) Which part of the plants is least likely t	to be infected by viruses? [Question ID = 52339]
1. Shoot meristem [Option ID = 89349]	
2. Flowers [Option ID = 89350]	
 Crown tissue. [Option ID = 89351] Leaves [Option ID = 89348] 	
Correct Answer :-	
 Shoot meristem [Option ID = 89349] 	
26) A nonsense mutation involves [Questio	m ID = 52281]
	odon in a gene. [Option ID = 89116]
 a nucleotide substitution that meates a stop meater. 	

Correct Answer :-	es a stea cader is a serve (Outline ID - 2014-01
 a nucleotide substitution that create 	es a stop codon in a gene. [Option ID = 89116]
27) The primary walls of endoder	mis are impregnated with [Question ID = 52323]
1. lignin. [Option ID = 89286]	
 proteins. [Option ID = 89285] 	
3. suberin. [Option ID = 89287]	
4. wax. [Option ID = 89284]	
Correct Answer :-	
 suberin. [Option ID = 89287] 	
28) In the context of bacteriopha	ge lambda, lysogeny indicates a stage where [Question ID = 52282]
1. the bactericohage DNA gets integral	ted into the bacterial chromosome. [Option ID = 89122]
2. the bacteria form large colonies. [Op	
multiple copies of bacteriophages ar	
there is rapid lysis of bacteria. [Opti	on ID = 89120]
Correct Answer :-	
 the bacteriophage DNA gets integra 	ated into the bacterial chromosome. [Option ID = 89122]
29) 'Teosinte' is the propenitor of	which of the following crops? [Question ID = 52300]
1. Maize [Option ID = 89193] 2. Rice [Option ID = 89192]	
3. Barley [Option ID = 89192]	
4. Wheat [Option ID = 89194]	
Correct Answer :-	
 Maize [Option ID = 89193] 	
1. glycolipids. [Option ID = 89326] 2. hemicellulose. [Option ID = 89325] 3. cellulose. [Option ID = 89324] 4. starch. [Option ID = 89327]	
Correct Answer 1-	
 glycolipids. [Option ID = 89326] 	
- Blenders [ebneu in - ebned]	
31) Plasma membrane of a plant (cell consists of
[Question ID = 52314]	
 carbohydrate, protein and esters. [O phospholipids and proteins. [Option 	
 Ipids, acid and base. [Option ID = 8 	
4. free fatty acid, steroids and proteins	
Correct Answer :-	
 phospholipids and proteins. [Option 	n 1D = 89250]
32) Nucleosome is involved in [Qu	uestion ID = 52365]
1. DNA packaging. [Option ID = 89452	
 DNA packaging. [Option ID = 89452 RNA packaging. [Option ID = 89453 	
3. DNA recombination. [Option ID = 89	9455]
4. Protein transport. [Option ID = 8949	
Correct Answer :-	
 DNA packaging. [Option ID = 8945 	2]
	the chloroplast is [Question ID = 52311]
33) In nigner plants, the shape of	

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1. cup-shaped. [Option ID = 89237] 2. girdle-shaped. [Option ID = 89238] 3. ribbon-shaped. [Option ID = 89239] 4. discoid. [Option ID = 89236]
Correct Answer :- + discoid. [Option ID = 89236]
 34) The molecular biology term EST stands for [Question ID = 52347] 1. Exon Sequencing Technique. [Option ID = 89382] 2. Eukaryotic Sequenced Tag. [Option ID = 89383] 3. Expressed Sequenced Tag. [Option ID = 89381]
4. Express Sequencing Technique. [Option ID = 89380] Correct Answer :- • Expressed Sequenced Tag. [Option ID = 89381]
35) The longest cell in the human body is [Question ID = 52334] 1. muscle cell. [Option ID = 89328] 2. heart cell. [Option ID = 89331] 3. bone cell. [Option ID = 89329] 4. nerve cell. [Option ID = 89330]
Correct Answer :- • nerve cell. [Option ID = 89330]
 36) The smallest amino acid is [Question ID = 52308] 1. isoleucine. [Option ID = 89227] 2. valine. [Option ID = 89226] 3. glycine. [Option ID = 89224] 4. alanine. [Option ID = 89225]
Correct Answer :- • glycine. [Option ID = 89224]
 37) Cell elongation in intermodal regions in green plants takes place due to [Question ID = 52337] 1. ethylene. [Option ID = 89342] 2. gibberelins. [Option ID = 89341] 3. cytokinins. [Option ID = 89340] 4. indole acetic acid. [Option ID = 89343]
Correct Answer :- • gibberellins. [Option ID = 89341]
 38) In which sport, the Indian team won Gold medal for the first time in 2018 Commonwealth Games? [Question ID = 52344] 1. Women Cricket [Option ID = 89370] 2. Women Hockey [Option ID = 89369] 3. Women Table Tennis [Option ID = 89371] 4. Women Basketball [Option ID = 89368]
Correct Answer :- • Women Table Tennis [Option ID = 89371]
39) The Nobel Prize in the field of medicine/physiology 2017 was awarded for the discovery of molecular mechanism controlling [Question ID = 52306]
1. circadian rhythm. [Option ID = 89216] 2. gene silencing. [Option ID = 89219] 3. autophagy. [Option ID = 89217] 4. innate immunity. [Option ID = 89218]
Correct Answer :- • circadian rhythm. [Option ID = 89216]

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40) Name the only common amino acid having an ionisable side chain with a pKa near neutrality: [Question ID = 52355]
1. Histidine [Option ID = 89415]
2. Glycine [Option ID = 89412]
3. Valine [Option ID = 89413]
4. Aspartic acid [Option ID = 89414]
Correct Answer :-
Histidine [Option ID = 89415]
 Lingene [obeni in - exite]
41) Name the enzyme of TCA cycle which uses FAD as a cofactor: [Question ID = 52285]
1. Citrate synthase [Option ID = 89132]
2. Isocitrate dehydrogenase [Option ID = 89135] 3. Succinate dehydrogenase [Option ID = 89134]
4. Alpha ketoglutarate dehydrogenase [Option ID = 89133]
Correct Answer :-
 Succinate dehydrogenase [Option ID = 89134]
42) What is maximum resolving power of light microscope? [Question ID = 52316]
1. 2.0 µm [Option ID = 89257]
2. 0.1 µm [Option ID = 89258]
3. 0.2 µm [Option ID = 89259]
4. 1.0 µm [Option ID = 89256]
Correct Answer :-
 0.2 µm [Option ID = 89259]
43) 'Norin 10' is a cultivar of [Question ID = 52301]
1. rice. [Option ID = 89197]
2. wheat. [Option ID = 89197]
3. maize. [Option ID = 89198]
4. sorghum. [Option ID = 89199]
<i>CO</i>
Correct Answer :-
 wheat. [Option ID = 89196]
44) The concept of 'Totipotency' was given by [Question ID = 52302]
1. T. Murashige. [Option ID = 89202]
2. P. Maheshwari. [Option ID = 89201]
3. E.C. Cocking. [Option ID = 89203]
4. G. Haberlandt. [Option ID = 89200]
Correct Answer :-
 G. Haberlandt. [Option ID = 89200]
45) Brown mustard is [Question ID = 52297]
1 Brassics Longan (Option ID = 80103)
1. Brassica juncea. [Option ID = 89183] 2. Brassica nigra. [Option ID = 89180]
3. Brassica carinata. [Option ID = 89182]
4. Brassica napus. [Option ID = 89181]
Correct Answer :-
Brassica juncea. [Option ID = 89183]
46) When a plant cell is shifted from an isotonic to a hypotonic solution, the cell will [Question ID = 52321]
1. die. [Option ID = 89279]
2. swell. [Option ID = 89277]
3. shrink. [Option ID = 89276]
4. not change in size. [Option ID = 89278]
Correct Answer :-
 not change in size. [Option ID = 89278]
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47) The repeating unit of glycogen is [Question ID = 52335]
1. galactose. [Option ID = 89335]
2. mannose. [Option ID = 89333]
3. glucose. [Option ID = 89332] 4. fructose. [Option ID = 89334]
Correct Answer :-
glucose. [Option ID = 89332]
48) In dicots, primary growth is initiated by the
[Question ID = 52326]
1. vascular cambium. [Option ID = 89297]
2. intercalary meristems. [Option ID = 89299]
3. apical meristems. [Option ID = 89296] 4. lateral meristems. [Option ID = 89298]
Correct Answer :-
apical meristems. [Option ID = 89296]
49) Isoschizomers are the restriction endonucleases that have [Question ID = 52364]
1. different recognition and cleavage sites. [Option ID = 89448]
2. different recognition and similar cleavage sites. [Option ID = 89449]
3. same recognition and cleavage sites. [Option ID = 89451] 4. same recognition and different cleavage sites. [Option ID = 89450]
Correct Answer :-
 same recognition and cleavage sites. [Option ID = 89451]
50) Moss peat is used for transportation of live plant material because [Question ID = 52331]
1. it is hygroscopic. [Option ID = 89317]
2. it is easily available. [Option ID = 89316]
3. it serves as a disinfectant. [Option ID = 89319]
4. it reduces transpiration. [Option ID = 89318]
Correct Answer :-
 it is hygroscopic. [Option ID = 89317]
51) IUPAC stands for [Question ID = 52338]
· · · · · · · · · · · · · · · · · · ·
International Union of Pure and Applied Chemistry. [Option ID = 89347] International Union of Primary and Applied Chemistry. [Option ID = 89345]
3. Indian Union of Primary and Applied Chemistry. [Option ID = 89344]
 Indian Union of Pure and Applied Chemistry. [Option ID = 89346]
Correct Answer :-
 International Union of Pure and Applied Chemistry. [Option ID = 89347]
52) The number of amino acids in the protein translated from a 336 nucleotides long mRNA (including initiator and termination codon) is [Question ID = 52304]
1. 109 [Option ID = 89208] 2. 112 [Option ID = 89211]
2. 112 [Option ID = 89211] 3. 110 [Option ID = 89209]
4. 111 [Option ID = 89210]
Correct Answer :-
 111 [Option ID = 89210]
53) Metabolomics is the study of the [Question ID = 52269]
1. metagenome. [Option ID = 89069] 2. entire suite of metabolites. [Option ID = 89068]
3. proteins involved in metabolism. [Option ID = 890070]
4. enzymes. [Option ID = 89071]



 entire suite of r 	netabolites. [Option ID = 89068]
Ed) The office o	f the Indian National Science Academy is located at [Question ID = 52341]
54) The office o	nie manan nacional science Academy is located at [Question 10 - 52541]
1. Allahabad. [Opt	
2. New Delhi. [Op	
3. Hyderabad. [Op	
4. Bengaluru. [Op	00 ID = 9332/]
Correct Answer	-
 New Delhi. [Op 	ion ID = 89359]
EE) Which of th	e amino acids is precursor for ethylene? [Question ID = 52292]
1. Glycine [Option	
2. Cysteine [Optio	
 Tryptophan [Op 4. Methionine [Op 	
- Hemonine (op	00110 = 02101]
Correct Answer	
 Methionine [Op 	tion ID = 89161]
EG) Courseour Ba	new carried out fine structure manning of eff anne of bacterianhane Ti by Ouestion ID - 522201
	nzer carried out fine structure mapping of rII gene of bacteriophage T4 by [Question ID = 52279]
	of mutant bacteriophages. [Option ID = 89108]
	oresis of bacteriophage proteins. [Option ID = 89110] type bacteriophages from crosses of mutant phages. [Option ID = 89111]
	is of mutant bacteriophages. [Option ID = 89109]
- construction models	
Correct Answer	
 recovery of wild 	type bacteriophages from crosses of mutant phages. [Option ID = 89111]
57) Coiling of g	rden pea tendrils around a support is an example of [Question ID = 52336]
1 thiomonacty If	ption ID = 89339]
	[Option ID = 89338]
	tion ID = 89336]
	ption ID = 89337]
Correct Answer	
 thigmotropism. 	[Option ID = 89338]
58) Who discov	ered the principle of confocal microscopy? [Question ID = 52320]
	ky [Option ID = 89273]
 Ernest Abbe [O] Carl Zeiss [Opti 	
	ky [Option ID = 89274]
Correct Answer	
	 iky [Option ID = 89274]
- marvin Lee Min	white in + 0271.41
59) cDNA is syn	thesized by [Question ID = 52272]
1. RNA polymeras	I. [Option ID = 89080]
	II. [Option ID = 89081]
	III. [Option ID = 89082]
4. Reverse transcr	ptase. [Option ID = 89083]
Correct Answer	-
	 iptase. [Option ID = 89083]
60) Which regio	n of the visible spectrum is optimal for the light reaction of photosynthesis? [Question ID = 52363]
	[Option ID = 89447]
2. Green and red [Option ID = 89444]
and a second data the second data	Option ID = 89445]
 Blue and red [0 	
A CARLON AND AND AND AND AND AND AND AND AND AN	option ID = 89445] ption ID = 89446] er.com

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	Correct Answer :- • Blue and red [Option ID = 89446]
	61) The juvenile stage in mosses is [Question ID = 52332]
	1. prothallus. [Option ID = 89320] 2. capsule. [Option ID = 89321] 3. protonema. [Option ID = 89322] 4. sporophyte. [Option ID = 89323]
	Correct Answer :- • protonema. [Option ID = 89322]
	62) The main function of centrosome is [Question ID = 52310]
	1. secretion. [Option ID = 89232] 2. vesicle formation. [Option ID = 89233] 3. protein synthesis. [Option ID = 89234] 4. formation of spindle fibres. [Option ID = 89235]
	Correct Answer :- + formation of spindle fibres. [Option ID = 89235]
	63) Galacturonic acid is predominant in [Question ID = 52284]
	1. chloroplast membrane. [Option ID = 89129] 2. glyoxysome. [Option ID = 89131] 3. plasmamembrane. [Option ID = 89128] 4. cell wall. [Option ID = 89130]
	Correct Answer :- • cell wall. [Option ID = 89130]
	 64) What is the full form of HTML? [Question ID = 52293] 1. Heavy Text Making Language [Option ID = 89167] 2. Heavy Text Markup Language [Option ID = 89165] 3. Hyper Text Markup Language [Option ID = 89164] 4. Hyper Text Making Language [Option ID = 89166]
	Correct Answer :- • Hyper Text Markup Language [Option ID = 89164]
	 65) Which of the following is a synthetic cytokinin? [Question ID = 52303] 1. Adenine [Option ID = 89204] 2. Kinetin [Option ID = 89206] 3. Zeatin [Option ID = 89207] 4. Isopentyl adenine [Option ID = 89205]
	Correct Answer :- • Kinetin [Option ID = 89205]
	(d) Which of the following is a wirelessment or active in plants? [Output in Work 2020]
	 66) Which of the following is a viral promoter, active in plants? [Question ID = 52276] 1. pActin [Option ID = 89099] 2. p3SS-CaMV [Option ID = 89096] 3. pUbliquitin [Option ID = 89097] 4. pRbcS [Option ID = 89098]
	Correct Answer :- • p35S-CaMV [Option ID = 89096]
	67) Which of the following is a seed company? [Question ID = 52351]
1	Bennett, Coleman & Co. Ltd. [Option ID = 89396] Moneanth [Option ID = 89397]

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Correct A Monsan	inswer :- ito [Option ID = 89397]
< Honsan	an Enbruit m. = 02321.1
68) Whic	ch of the following books has been authored by Prof. P. Maheshwari? [Question ID = 52340]
1. Basics o	if Plant Cell Biology [Option ID = 89352]
	ra of Delhi [Option ID = 89353]
	aduction to the Embryology of Angiosperms [Option ID = 89355]
4. An Intro	oduction to the Embryology of Gymnosperms [Option ID = 89354]
Correct A	
An Intro	oduction to the Embryology of Angiosperms [Option ID = 89355]
69) Whic	ch of the following assays does NOT require antibodies? [Question ID = 52358]
1 Weeters	n analysis [Option ID = 89426]
	n blotting [Option ID = 89427]
	Option ID = 89424]
4. ChIP [0	ption ID = 89425]
Correct A	Inswer :-
 Norther 	n blotting [Option ID = 89427]
70) Wibi-	ch of the following enzymes is membrane bound? [Question ID = 52287]
	synthase [Option ID = 89140] te dehydrogenase [Option ID = 89143]
	te dehydrogenase [Option ID = 89143]
	etoglutarate dehydrogenase [Option ID = 89141]
Correct A	
* Succina	te dehydrogenase [Option ID = 89142]
71) Whic	ch of the following enzymes is important for regeneration of NAD+? [Question ID = 52286]
	te dehydrogenase [Option ID = 89189]
	dehydrogenase [Option ID = 89137]
	dehydrogenase [Option JD = 89126]
4. Alpha k	etoglutarate dehydrogenase [Option ID = 89138]
Correct A	Inswer :-
	dehydrogenase [Option ID = 89137]
72) Whic	ch of the following enzymes uses a sulphur-containing coenzyme? [Question ID = 52290]
	synthase [Option ID = 89152]
	te dehydrogenase [Option ID = 89155]
	etoglutarate dehydrogenase [Option ID = 89153] e dehydrogenase [Option ID = 89154]
ryrovat	e oeulonolleunes [ohnou so = 05734]
Correct A	
 Pyruvat 	e dehydrogenase [Option ID = 89154]
73) Whic	ch of the following is NOT an example of a lipid? [Question ID = 52322]
1. Steroids	[Option ID = 89282]
	ids [Option ID = 89283]
	rides [Option ID = 89281]
4. Glycosa	minoglycan [Option ID = 89280]
Correct A	inswer :-
 Glycosa 	minoglycan [Option ID = 89280]
74) White	ch of the following elements is present in both proteins and nucleic acids? [Question ID = 52357]
 Piorybde 	enum (Option ID = 89421) n. [Option ID = 89423]

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0	vrrect Answer :-
	Nitrogen. [Option ID = 89423]
	Which of the following is a vitamin? [Question ID = 52368]
	Lauric acid [Option ID = 89467] Folic acid [Option ID = 89464]
3.	Citric acid [Option ID = 89465]
4.	Phytic acid [Option ID = 89466]
	vrrect Answer :-
	Folic acid [Option ID = 89464]
76	i) Which of the following is a text-based database search engine? [Question ID = 52295]
	Phylip [Option ID = 89175]
	FASTA [Option ID = 89173] ENTREZ [Option ID = 89174]
	BLAST [Option ID = 89172]
Co	wrect Answer :-
	ENTREZ [Option ID = 89174]
77	') Which of the following activities is absent in bacterial DNA Polymerase I? [Question ID = 52362]
1.	S'-3' exonuclease. [Option ID = 89441]
2.	3'-5' exonuclease. [Option ID = 89442]
	3'-5' polymerase. [Option ID = 89443] 5'-3' polymerase. [Option ID = 89440]
_	
	wrect Answer :-
	3'-5' polymerase. [Option ID = 89443]
78) Which of the following is the main component of the commonly used household mosquito repellant? [Question ID = 52343]
1	Benzene [Option ID = 89366]
	Pyrethrin [Option ID = 89367]
	Pine all [Option ID = 89365]
<i>.</i>	Phenol [Option ID = 89364]
	vrrect Answer :-
	Pyrethrin [Option ID = 89367]
79) Which of the following phenomena occurs in trp operon during "attenuation" in the presence of tRNAs charged with tryptoph
[Q	uestion ID = 52283]
	Failure to terminate at the stop codon [Option ID = 89127]
	Transcription initiation at the transcription start site [Option ID = 89125] Transcription termination at the leader sequence [Option ID = 89124]
	Recombination at the leader region [Option ID = 89124]
	vrrect Answer :-
	Transcription termination at the leader sequence [Option ID = 89124]
80	 Which of the following crop genomes is the largest in size? [Question ID = 52274]
	Chickpea [Option ID = 89088]
2.	Tomato [Option ID = 89090]
	Rice [Option ID = 89089]
4.	Wheat [Option ID = 89091]
	Minest English ID - 200011
	Wheat [Option ID = 89091]
81) Which of the following plants is a source of a common household Insecticide? [Question ID = 52352]

2. Chrysanthemum cineraraefolium [Option ID = 89402] 3. Digitalis Ianata [Option ID = 89400]	
4. Coleus blumei [Option ID = 89403]	
Correct Answer :-	
Chrysanthemum cineraraefolium [Option ID = 89402]	
82) Which of the following has a closed ring structure? [Question ID = 52291]	
1. b-carotene [Option ID = 89157]	
2. Phytochrome [Option ID = 89156]	
3. Chlorophyll [Option ID = 89158]	
4. Phycobilin [Option ID = 89159]	
Correct Answer :-	
Chlorophyll [Option ID = 89158]	
83) Which of the following lipids are more suited for the function of energy storage? [Qu	estion ID = 52289]
1. Phospholipids [Option ID = 89148]	
2. Galactolipids [Option ID = 89151]	
3. Triglycerides [Option ID = 89150]	
4. Sphingolipids [Option ID = 89149]	
Correct Answer :-	*
Triglycerides [Option ID = 89150]	
84) Which one of the following is a Rabi crop? [Question ID = 52361]	
1. Rice [Option ID = 89438]	
2. Mustard. [Option ID = 89436]	
3. Pearl millet. [Option ID = 89437]	
4. Sugarcane. [Option ID = 89439]	
Correct Answer :-	
• Mustard. [Option ID = 89436]	
- manager (opposition - oppose)	
85) Which one of the following statements is NOT true? [Question ID = 52317]	
1. Tetrahymena mitochondrial DNA is linear in reture [Option ID = 89263]	
2. Higher plant mitochondrial DNA is circular in nature [Option ID = 89263]	
3. Plasmodium mitochondrial DNA is linear in nature [Option ID = 89262]	
 Chlamydomonas mitochondrial DNA is circular in nature [Option ID = 89261] 	
Correct Answer :-	
Chlamydomonas mitochondrial DNA is circular in nature [Option ID = 89261]	
86) Smooth endoplasmic reticulum is the site of [Question ID = 52312]	
1. protein synthesis. [Option ID = 89240]	
2. amino acid synthesis. [Option ID = 89242]	
carbohydrate synthesis. [Option ID = 89241]	
4. lipid synthesis. [Option ID = 89243]	
Correct Answer :-	
Iipid synthesis. [Option ID = 89243]	
87) Bacteriophages are [Question ID = 52307]	
1. fungl infected bacteria. [Option ID = 89223]	
2. viruses infecting bacteria. [Option ID = 89221]	
3. bacteria which infect viruses. [Option ID = 89220] 4. bacteria infecting fungi. [Option ID = 89222]	
Correct Answer :-	
 viruses infecting bacteria. [Option ID = 89221] 	



	Slycine and valine [Option ID = 89411] ysine and Arginine [Option ID = 89409]
	rect Answer :- Ispartic acid and glutamic acid [Option ID = 89408]
89)	Name two amino acids with positively charged R groups: [Question ID = 52353]
2. A	listidine and Lysine [Option ID = 89405] lanine and Proline [Option ID = 89407] Ispartic acid and Glutamic acid [Option ID = 89404]
	eucine and Valine [Option ID = 89406]
. 1	rect Answer :- listidine and Lysine [Option ID = 89405]
	DNA binding sites of transcription factors in the promoters can be identified by [Question ID = 52348]
	east-2-hybrid analysis. [Option ID = 89387]
	hromatin Immunoprecipitation. [Option ID = 89385] / RACE. [Option ID = 89384]
	iouthern blotting analysis. [Option ID = 89386]
Cor	rect Answer :-
	hromatin Immunoprecipitation. [Option ID = 89385]
91)	ENCODE expands to [Question ID = 52278]
1.1	intire Compendium of DNA Elements. [Option ID = 89105]
	incyclopedia of DNA Elements. [Option ID = 89104]
	incyclopedia of Disease Estimates. [Option ID = 89107] incyclopedia of Disease Estimates. [Option ID = 89106]
Cor	rect Answer :-
• 8	incyclopedia of DNA Elements. [Option ID = 89104]
9.21	The type I intermediate filament present in nall and hair is made of [Question ID = 52313]
	ubulins. [Option ID = 89247] imentins. [Option ID = 89245]
3. k	eratins. [Option ID = 89246]
4.1	amins. [Option ID = 89244]
Cor	rect Answer :-
• 1	eratins. [Option ID = 89246]
93)	Who was the governor of Reserve Bank of India at the time of demonetization? [Question ID = 52345]
). Subbaroa [Option ID = 89373]
	'. V. Reddy [Option ID = 89375] krjit R. Patel [Option ID = 89372]
	taghuram Rajan [Option ID = 89374]
Cor	rect Answer :-
+ I,	Irjit R. Patel [Option ID = 89372]
94)	Who was given Nobel Prize for discovery of restriction enzymes? [Question ID = 52275]
	L Klug [Option ID = 89093]
	V. Arber [Option ID = 89094]
	b. Berg [Option ID = 89092] J. Sanger [Option ID = 89095]
Cor	rect Answer :-
• \	V. Arber [Option ID = 89094]
95)	A technique of using very small metal particles coated with desired gene in the gene transfer is called [Question ID = 52329

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2. biolistics. [Option ID = 89311] 3. lipofection. [Option ID = 89310] 4. electroporation. [Option ID = 89308]
Correct Answer :- + biolistics. [Option ID = 89311]
96) EcoRI recognizes six bases to make a cut in DNA. In a large genome, what would be the expected frequency of occurrence of the recognition site? [Question ID = 52277]
1. 16384 bp [Option ID = 89103] 2. 24 bp [Option ID = 89100] 3. 1024 bp [Option ID = 89102] 4. 4096 bp [Option ID = 89101]
Correct Answer :-
97) The DNA:protein ratio in eukaryotic chromatin is
[Question ID = 52318] 1. 4:1. [Option ID = 89266] 2. 2:1 [Option ID = 89265] 3. 1:2 [Option ID = 89267] 4. 3:1. [Option ID = 89264]
Correct Answer :- • 1:2 [Option ID = 89267]
 98) Which has the largest genome size amongst the following? [Question ID = 52294] 1. Human [Option ID = 89169] 2. Mouse [Option ID = 89171] 3. Rice [Option ID = 89168] 4. Wheat [Option ID = 89170]
Correct Answer :- • Wheat [Option ID = 89170]
 99) Who is the current chief of Indian Air Force? [Question ID = 52342] 1. Birender Singh Dhanca [Option ID = 89361] 2. Bikram Singh [Option ID = 89362] 3. Dalbir Singh [Option ID = 89360] 4. V. K. Singh [Option ID = 89363]
Correct Answer :- • Birender Singh Dhanoa [Option ID = 89361]
100) You are required to prepare 3M sodium chloride solution (NaCl) for a molecular biology experiment. The atomic number of Na-11, CI-17 and atomic weight of Na-23, CI-35.5. How much NaCl salt would you weigh for preparing 100 ml solution? [Question ID = 52305] 8.4 g [Option ID = 89212] 2.8 g [Option ID = 89215] 5.85 g [Option ID = 89214] 17.55 g [Option ID = 89213]
Correct Answer :- • 17.55 g [Option ID = 89213]

