DU MSc Botany

		Question		
Sr.No	Question Id	Descripti on	Question Body	Options
1	2345	DU_J19_ MSC_BOT _Q01	Channel proteins that are located in the outer membrane of Gram-negative bacteria are known as	9377: barrels , 9378:murins , 9379:porins, 9380:granules ,
2	2346	DU_J19_ MSC_BOT _Q02	Gram-negative bacteria are more resistant to antibiotics than Gram-positive bacteria due to the presence of	9381: peptidoglycan wall., 9382:outer lipopolysaccharide layer., 9383:porin protein., 9384:teichoic acid.,
3	2347	DU_J19_ MSC_BOT _Q03	Dormant, tough, non-reproductive structure, produced by bacteria to tide over unfavourable conditions is known as:	9385: endospore , 9386: sclerotium , 9387:sporocarp , 9388:heterocyst ,
4	2348	DU_J19_ MSC_BOT _Q04	Three-dimensional structures of a cell can be studied by using which of the following microscopes?	9389: Bright field , 9390: Phase contrast , 9391:Fluorescent , 9392: Differential interference contrast ,
5	2349	DU_J19_ MSC_BOT _Q05	Algae that grow at the interface of water and atmosphere are called as	9393: epipelic , 9394:neustonic , 9395: planktonic , 9396: benthic,
6	2350	DU_J19_ MSC_BOT _Q06	Orthorhombic crystals of calcium carbonate are known as	9397: aragonite., 9398: calcite., 9399: detritus., 9400: stromatolites.,
7	2351	DU_J19_	Which one of the following amino acids has a	9401: Lysine ,

		MSC_BOT _Q07	nonpolar, aliphatic R group?	9402: Histidine ,
		_Q07		9403: Arginine ,
				9404: Glycine,
8	2352	DU_J19_	Which one of the following is a phospholipid?	9405: Methionine ,
		MSC_BOT		9406: Valine ,
		_Q08		9407: Proline,
				9408: Lecithin ,
9	2353	DU_J19_	Majority of the enzymes are inactive	9409: at 25°C ,
		MSC_BOT		9410: between 25-30°C ,
		_Q09		9411: at 15°C ,
				9412: above 75°C ,
10	2354	DU_J19_	The concept of symbiogenesis was first articulated	9413: Ivan Wallin ,
		MSC_BOT	by	9414: Lynn Margulis ,
		_Q10		9415: Konstantin Mereschkowski ,
				9416: Lynn Sagan,
11	2444	DU_J19_	Which one of the following statements is not true?	9773:The grouping of taxa by overall
		MSC_BOT _Q100		similarity is called phenetics. ,
		_Q100		
				9774:Verticillaster is the characteristic
				inflorescence of Lamiaceae. ,
				077F.Cypsolo is shown storictic fruit of
				9775:Cypsela is characteristic fruit of
				Poaceae ,
				9776:Cremocarp is characterstic fruit of
				Apiaceae ,
				/ placede /
12	2355	DU_J19_	The number of nucleosomes associated with one	9417:2,
			turn of solenoid configuration of chromatin is	9418:4,
		_Q11		9419:6,
				9420:8,
13	2356	DU_J19_	Dolipore septum is a characteristic of	9421: Basidiomycetes. ,
		MSC_BOT		9422: Ascomycetes. ,
		_Q12		9423: Zygomycetes.,

				9424: Chytridiomycetes.,
14	2357	DU_J19_	Amphigynous antheridium is found in the genus	9425: Phytophthora.,
		MSC_BOT		9426: Alternaria. ,
		_Q13		9427: <i>Fusarium.</i> ,
				9428: Botrytis.,
15	2358	DU_J19_	The sexual fruiting body in <i>Neurospora</i> is called as	9429: cleistothecium. ,
		MSC_BOT		9430: pseudothecium. ,
		_Q14		9431: perithecium. ,
				9432: apothecium. ,
16	2359	DU_J19_	A globular or hook-like intracellular structure	9433: sclerotium.,
		MSC_BOT	formed by a biotrophic fungus/oomycete for absorption of nutrients from the host is known as	9434: vesicle.,
		_Q15	absorption of nutrients from the nost is known as	9435: haustorium. ,
				9436: sporophore.,
17	2360	DU_J19_	Which phylum contains organisms that most	9437: Zygomycota ,
		MSC_BOT	closely resemble the common ancestor of fungi and animals?	9438: Ascomycota ,
		_Q16	and animals?	9439: Chytridiomycota ,
				9440: Basidiomycota,
18	2361	DU_J19_	The smallest known virus is	9441: Escherichia coli ,
		MSC_BOT _Q17		9442:Vaccinia virus ,
		_Q17		9443:Tobacco mosaic virus ,
				9444:Tobacco necrosis satellite virus ,
19	2362	DU_J19_	Which one of the following contributes to the	9445: <i>Riccia</i> ,
		MSC_BOT	formation of peatlands?	9446: <i>Porella</i> ,
		_Q18		9447:Cooksonia ,
				9448:Sphagnum ,
20	2363	DU_J19_	Which one of the following	9449:In bryophytes, meiosis occurs in
		MSC_BOT	OT statements <u>is not</u> correct?	the gametangia to produce sperms and
		_Q19		eggs ,
				9450:In <i>Anthoceros</i> , each cell contains
				single large chloroplast with a pyrenoid ,
		1		

				9451:Amphigastria are found in <i>Porella</i> ,
				9452:In <i>Funaria</i> , the dominant stage of life cycle is gametophytic ,
21	2364	DU_J19_ MSC_BOT _Q20	In <i>Pellia,</i> the sporogenous tissue develops from the	9453: epidermis. , 9454: amphithecium. , 9455: endothecium. , 9456: columella. ,
22	2365	DU_J19_ MSC_BOT _Q21	Which one of the following is not found in <i>Marchantia</i> ?	9457:Smooth walled as well as tuberculated rhizoids ,
				9458:Barrel shaped epidermal pores in the thallus ,
				9459:Elaters , 9460:Filamentous protonema ,
23	2366	DU_J19_ MSC_BOT _Q22	Transfusion tissue in Cycas functions as	9461: lateral conducting channel for water in the leaves. ,
				9462: mucilage secreting tissue in the ducts. , 9463: micropyle closing tissue after
				pollination. , 9464: nutritive tissue for embryo. ,
24	2367	DU_J19_ MSC_BOT _Q23	Which type of wood is found in <i>Pinus</i> and <i>Cycas</i> ?	9465:Pycnoxylic in <i>Pinus</i> , and manoxylic in <i>Cycas</i> , 9466:Manoxylic in <i>Pinus</i> , and pycnoxylic in <i>Cycas</i> , 9467:Pycnoxylic in both,
				9468:Manoxylic in both ,
25	2368		Which of the following statements is NOT correct about <i>Gnetum</i> ?	9469:The secondary wood contains vessels. ,

		_Q24		9470:Tapetal layer is completely absent in the microsporangium. , 9471:The female gametophyte is formed before fertilization. , 9472:There are no distinct archegonia, and some free nuclei of the female gametophyte function as eggs. ,
26	2369	DU_J19_ MSC_BOT _Q25	The microsporangia in the male cone and ovules in female cones of <i>Pinus</i> are positioned on the	9473:adaxial surface and abaxial surface of the sporophylls, respectively , 9474:abaxial surface and adaxial surface of the sporophylls, respectively , 9475:adaxial surface of the sporophylls , 9476:abaxial surface of the sporophylls ,
27	2370	DU_J19_ MSC_BOT _Q26	Trichoblasts are	9477: cells in the root epidermis that gives rise to root hair , 9478: epidermal outgrowths that may or may not be glandular, 9479: cells that markedly differ from other cells in the same tissue , 9480: excessively multiplying cells in the root epidermis ,

28	2371	DU_J19_ MSC_BOT _Q27	Which of the following statement is not true about lenticels?	9481:They are formed by the higher activity of phellogen in some limited areas of the periderm , 9482:They permit the entry of air through the peridem , 9483:They are found in stems as well as roots , 9484:They start appearing during the early stages of primary growth ,
29	2372	DU_J19_ MSC_BOT _Q28	Mesogenous stomata refers to stomata	9485:occurring in mesophytic plants., 9486:in which all the subsidiary cells have a common origin with guard cells., 9487:having subsidiary cells that are indistinguishable from other epidermal cells., 9488:having subsidiary cells that are aligned parallel to the long axis of the guard cells.,
30	2373	DU_J19_ MSC_BOT _Q29	The term 'Glabrous' refers to	9489: lack of trichomes. , 9490: presence of bristly hair. , 9491: sparsely hairy., 9492: presence of glandular trichomes. ,
31	2374	DU_J19_ MSC_BOT _Q30	Volatile substances that attract pollinators are emitted by	9493: osmophores , 9494: hydathodes , 9495: nectaries , 9496: myrosine cells ,

32	2375	DU_J19_ MSC_BOT _Q31	Blastozone refers to the	9497: meristematic region located in the rib zone of Shoot Apical Meristem (SAM) ,
				9498: intercalary meristem , 9499: marginal meristem of growing leaves , 9500: quiescent centre of Root Apical Meristem (RAM) ,
33	2376	DU_J19_ MSC_BOT _Q32	Hygroscopic fibers located in the reaction wood are termed as	9501: substitute fibers , 9502: libriform fibers , 9503: gelatinous fibers , 9504: fiber-tracheids,
34	2377	DU_J19_ MSC_BOT _Q33	Vestures refer to	9505: resin droplets accumulated in the non-conducting vessel elements,
				9506: wall ingrowths that impart sievelike appearance to pits of the vessels,
				9507: Plasmodesmatal connections between any wood elements ,
				9508: clogged hydathodes ,
35	2378	DU_J19_ MSC_BOT _Q34	Accessory cambia, the activity of which leads to formation of a series of cylinders of secondary vascular tissues are found in	9509: Chenopodiaceae , 9510: Bignoniaceae , 9511: Apocynaceae ,
36	2379	DU J19	Which of the following fruits <u>do not</u> have edible	9512: Asclepiadaceae ,
00	23/9		mesocarp?	9513: Carica papaya , 9514: Punica granatum , 9515: Tamarindus indica ,
37	2380	DU_J19_ MSC_BOT	Which one of the following is used as a sweetener?	9516: <i>Mangifera indica</i> , 9517: <i>Gymnema sylvestre</i> , 9518: <i>Stevia rebaudiana</i> ,

		_עטס		9519: Syzygium cumini , 9520: Carica papaya ,
38	2381	DU_J19_ MSC_BOT _Q37	Which one of the following is not a constituent of an ayurvedic herbal formulation, 'Trifala'?	9521:Terminalia bellerica , 9522:Terminalia arjuna , 9523:Terminalia officinalis , 9524:Emblica officinalis ,
39	2382		Fruits of which of the following pair of plants possess aril?	9525:Litchi chinensis and Aegle marmelos , 9526:Myristica fragrans and Litchi chinensis , 9527:Vitis vinifera and Aegle marmelos , 9528:Litchi chinensis and Ananas cosmosus ,
40	2383	DU_J19_ MSC_BOT _Q39	Which one of the following is an incorrect combination?	9529:Betula bhojpatra – bhojpatra , 9530:Diospyros melanoxylon – Indian beedi , 9531:Pongamia pinnata – biodiesel , 9532:Cichorium intybus – khus-khus ,
41	2384	DU_J19_ MSC_BOT _Q40	Which one of the following sets of compounds is used as biopesticides?	9533:Pyrethrin, Azadirachtin, Spilanthol, 9534:Azadirachtin, Taxol, Curcumin, 9535:Pyrethrin, Jatrophine, Curcumin, 9536:Capsaicin, Citronella oil, Piperine,
42	2385	DU_J19_ MSC_BOT	Aleurone layer is rich in	9537:essential oils. , 9538:proteins. ,

				9539:starch grains. , 9540:dietary fibers. ,
43	2386	DU_J19_ MSC_BOT _Q42	Gynobasic style is a characteristic feature of the family	9541:Papilionaceae , 9542:Asteraceae , 9543:Lamiaceae , 9544:Apiaceae ,
44	2387		In a population of diploid individuals, six alleles exist for a particular gene. What is the expected number of alleles present in a chromosome; and types of alleles in a heterozygous individual and in a homozygous individual respectively?	9545:1; 2, 2 , 9546:2; 2, 1 , 9547:1; 2, 1 , 9548:2; 2, 1 ,
45	2388	DU_J19_ MSC_BOT _Q44	Which one of the following statements is false for a population that is under natural selection?	9549:The population will not exhibit Hardy-Weinberg equilibrium., 9550:The genotypic frequencies can be estimated if the allele frequencies are known., 9551:At a given point of time for any given bi-allelic gene, the sum of the allele frequencies would be equal to one., 9552:At a given point of time, the sum total of all genotypic frequencies is equal to 1.,
46	2389		In the fine mapping of <i>rII</i> locus, Benzer was able to demonstrate intragenic recombination in phages mainly because	9553:intragenic recombination occurs only in phages. , 9554:of the large number of phage progeny that could be screened. , 9555:making crosses in phages is easier. ,

				9556:phages have haploid genomes.,
47	2390		In Lymnaea peregra, coiling behaviour is controlled by a single gene. Dextral coiling behaviour is governed by dominant allele 'D' and sinistral coiling by recessive allele 'd'. When a cross is made using sinistral as female and dextral as male, all the snails are sinistral in F1 and dextral in F2. Again in F3 a ratio of 3 dextral and 1	9557:Mendelian inheritance , 9558:Cytoplasmic maternal inheritance , 9559:Cytoplasmic maternal effect , 9560:Epistasis ,
48	2391	DU_J19_ MSC_BOT _Q47	Study the following pedigree. What can be the possible inheritance pattern?	9561:X-linked inheritance , 9562:Y-linked inheritance , 9563:Mitochondrial inheritance , 9564:Autosomal inheritance ,
49	2392	DU_J19_ MSC_BOT _Q48	Which of the following is not true about the classic experiment carried out to study the nature of mutations by the 1969 Nobel prize-winning team of Max Luria and Salvador Delbruck?	9565:It is also called as Fluctuation Test, 9566:It demonstrated that genetic mutations arise in the absence of selection, and not as a response to selection., 9567:They inoculated equal number of <i>E. coli</i> into separate culture tubes with and without T1 phage., 9568:Equal number of T1 phage resistant colonies were obtained in all the plates.,

50	2393	DU_J19_ MSC_BOT _Q49	A plant heterozygous for two tightly linked genes A and B, has the genotype AB/ab. Which of the following statements is true when the plant is self-pollinated?	9569:The percentage of all the four types of gametes (AB, ab, Ab, aB) would be equal., 9570:Gametes with genotype AB and ab will be less than those with aB and Ab., 9571:Both loci will segregate in a 3:1 ratio., 9572:The segregation ratio of the two genes will depend upon the distance between them.,
51	2394	DU_J19_ MSC_BOT _Q50	Mark the correct pairing of scientists and their contributions I Nirenberg and Matthei 1 Telomerase II Sidney Altman and Thomas Cech 2 DNA Polymerase I III Arthur Kornberg 3 Ribozyme IV Elizabeth	9573:I-2; II-1; III-4; IV-3 , 9574:I-4; II-3; III-1; IV-2 , 9575:I-4; II-3; III-2; IV-1 , 9576:I-3; II-4; III-2; IV-1 ,
52	2395	DU_J19_ MSC_BOT _Q51	The factor responsible for mediating binding of core RNA polymerase to promoter is	9577:α-70 , 9578:σ-70 , 9579:Γ-55 , 9580:δ-70 ,
53	2396	DU_J19_ MSC_BOT _Q52	Which of the following enzyme is involved in tRNA synthesis?	9581: RNA Polymerase I , 9582: RNA polymerase II , 9583: RNA Polymerase III , 9584: RNA polymerase IV ,
54	2397	DU_J19_ MSC_BOT _Q53	The study of man-made areas with complex, dynamic ecological systems, influenced by interconnected biological, physical and social components is called as	9585: System Ecology. , 9586: Ecosystem Ecology. , 9587: Urban Ecology., 9588: Social Ecology. ,
55	2398	DU_J19_ MSC_BOT _Q54	Which of the following horizons in the soil profile has high amount of organic matter?	9589: O , 9590: A , 9591: B , 9592: C ,

56	2399	DU_J19_ MSC_BOT _Q55 DU_J19_	Hyperthermophiles are heat loving microbes that can live in temperature optima above A distribution in which individuals within a	9593:80 °C , 9594:50 °C , 9595:60 °C , 9596:40 °C , 9597:Random. ,
		MSC_BOT _Q56	population have an equal chance of living anywhere within an area is called as	9598:Regular. , 9599:Clumped. , 9600:Contiguous. ,
58	2401	DU_J19_ MSC_BOT _Q57	Which of the following chemical substances are secreted by some animals for communication with other members of their species?	9601:Alkaloids , 9602:Phenols , 9603:Terpenoids , 9604:Pheromones ,
59	2402	DU_J19_ MSC_BOT _Q58	The probability of death of organisms with different ages in the current year is shown in	9605:Survivorship curve , 9606:Static life table , 9607:Cohort life table , 9608:Natality ,
60	2403	DU_J19_ MSC_BOT _Q59	The Shannon-Weiner index measures:	9609: Dominance , 9610: General diversity , 9611: Evenness , 9612: Similarity-dissimilarity ,
61	2404	DU_J19_ MSC_BOT _Q60	Which of the following statements on filiform apparatus is not correct ?	9613:It is a highly convoluted extension of the micropylar portion of the synergid wall. , 9614:It increases the surface area of the plasma membrane of synergids. , 9615:It controls pollen tube growth. , 9616:It determines the polarity of the egg apparatus. ,

62	2405	DU_J19_ MSC_BOT _Q61	Hypostase refers to	9617:a cap-like structure of cutinized cells above the embryo sac. ,
				9618:a group of cells below the embryo sac and above the funiculus. ,
				9619:nucellar cells above the embryo sac. ,
63	2406	DU_J19_ MSC_BOT _Q62	The members of which of the following angiosperm families do not form endosperm?	9620:parietal cells., 9621:Poaceae, 9622:Podostemaceae, 9623:Brassicaceae, 9624:Papilionaceae,
64	2407	DU_J19_ MSC_BOT _Q63	Which of the following parts is not observed in a mature seed-coat?	9625:Epidermis , 9626:Aerenchyma , 9627:Hypodermis , 9628:Aril ,
65	2408	DU_J19_ MSC_BOT _Q64	Which one of the following statements is not true for aposporous embryo sac development?	9629:The first and second meiotic divisions result in a tetrad of megaspores. , 9630:Three megaspores degenerate while functional haploid megaspore undergoes megagametogenesis. , 9631:All the four megaspores degenerate while an aposporous initial forms the embryo sac. , 9632:Tetrad is surrounded by a callose wall. ,
66	2409	DU_J19_ MSC_BOT _Q65	Polysporangiate anthers are seen in the family	9633:Amborellaceae., 9634:Anacardiaceae., 9635:Annonaceae., 9636:Agavaceae.,

67	2410	DU_J19_ MSC_BOT _Q66	In a pollen wall, the following enzymes serve as markers for intine and exine, respectively.	9637:Acid phosphatases and esterases , 9638:Pectinases and catalases , 9639:Lipases and cutinases , 9640:Kinases and β -1,3 glucanase ,
68	2411	DU_J19_ MSC_BOT _Q67	Buzz pollination is associated with flowers, wherein the anthers exhibit	9641:longitudinal dehiscence., 9642:valvular dehiscence., 9643:poricidal dehiscence., 9644:explosive dehiscence.,
69	2412	DU_J19_ MSC_BOT _Q68	Fluorochromatic reaction test to ascertain pollen viability was developed by	9645:P. Maheshwari. , 9646:E. Strasburger. , 9647:J. Heslop-Harrison. , 9648:S.G. Nawaschin. ,
70	2413	DU_J19_ MSC_BOT _Q69	Which of the following statements is not correct about aquaporins?	9649:Aquaporins are found in both plant and animal cell membranes., 9650:Phosphorylation and calcium concentration regulates aquaporin activity., 9651:Activity of aquaporin is regulated by pH and reactive oxygen species., 9652:Aquaporins cannot transport uncharged molecules like NH ₃ .,
71	2414	DU_J19_ MSC_BOT _Q70	The water potential of pure water at atmospheric pressure is	9653:-2.3 bar. , 9654:+2.3 bar. , 9655:0 bar. , 9656:1 bar. ,

72	2415		In root nodules of legumes, leg-haemoglobin is important because it	9657:transports oxygen to the root nodule. , 9658:acts as an oxygen scavenger. ,
				9659:provides energy to the nitrogen fixing bacterium. ,
				9660:acts as a catalyst in
				transamination. ,
73	2416		Pfr shows maximum absorption at	9661:730 nm. ,
		MSC_BOT _Q72		9662:660 nm. ,
		_Q/2		9663:466 nm. ,
				9664:650 nm. ,
74	2417	MSC_BOT	In non-graminaceous plant roots, iron is transported across the plasma membrane as	9665:Both ferrous and ferric ions ,
		_Q73		9666:Fe-Chelate ,
				9667:Ferrous ions ,
				9668:Ferric ions ,
75	2418	DU_J19_	Methionine is the precursor of which of the	9669:Abscisic acid ,
			following plant growth regulators?	9670:Indole acetic acid,
		_Q74		9671:Cytokinins ,
				9672:Ethylene ,
76	2419	MSC_BOT	PEP carboxylase activity in C4 and CAM plants is regulated by	9673:phosphorylation-dephosphorylation
		_Q75		9674:oxidation-reduction,
				9675:carboxylation-decarboxylation,
				9676:isomerization ,
77	2420	DU_J19_	One molecule of Calmodulin, a calcium binding	9677:4 ,
			protein in eukaryotic cells binds to	9678:2 ,
		_Q76	Ca2+ ions.	9679:8 ,
				9680:14 ,
78	2421		Anabolic component of the carbohydrate	9681:Glycogenolysis,
			metabolism includes which one of the following	9682:Citric Acid Cycle ,
		_Q77	processes?	9683:Glyconeogenesis,

	10.15			9684:Uronic Acid Pathways ,
79	2422	DU_J19_ MSC_BOT _Q78	High activity of sucrose synthase is present in	9685:tissues that synthesize sucrose ,
		_Q/6		9686:tissues that utilize sucrose ,
				9687:photosynthetic leaves ,
				9688:sucrose exporting tissue ,
80	2423	DU_J19_ MSC_BOT	Which one of the following is considered to be a signal metabolite that regulates the partitioning	9689:Fructose-2, 6-bisphosphate,
		_Q79	between sucrose and starch synthesis?	9690:Fructose-1, 6-bisphosphate,
				9691:Fructose 6-phosphate ,
				9692:Fructose 2-phosphate ,
81	2424	DU_J19_ MSC_BOT _Q80	bacterial sample. Further experiments demonstrated that one of these (X) was composed of 40%A, 40%G, 10%T and 10%C but could not be cut by an exonuclease. The second DNA sample (Y) could be cut by the exonuclease and was	9693:DNA X has a double-stranded and linear structure ,
				9694:DNA Y has a double-stranded and
				circular structure ,
			found to be composed of 30%A, 30%T, 20%G and 20%C. Which one of the following statements can	9695:DNA X has a single-stranded and
			be correctly deduced from the above?	linear structure ,
				9696:DNA X has a single-stranded and circular structure ,
82	2425	DU_J19_	The 5' – 3' nucleotide sequence of one of the	9697: 5' – ATGACGA – 3' and 5' –
		MSC_BOT _Q81	strands of a double stranded DNA molecule is given below: 5' –	GTCACGG - 3', 9698: 5' - TACTGCT - 3' and 5' -
			ATGACGATGGACACATGACATAGACGATAATGCCGTG AC = 3' In the absence of T _m effects, which one of	GGCACTG- 3',
			the following sets of primers could, theoretically, be used to amplify the target sequence by PCR?	9699: 5' – TCGTCAT – 3' and 5' – CCGTGAC – 3' ,

				9700: 5' – ATGACGA – 3' and 5' –
0.2	2426	DII 110	To a look the constant of the control of the contro	CCGTGAC - 3',
83	2426	DU_J19_ MSC_BOT	In plant tissue culture, a high cytokinin: auxin ratio promotes the formation of	9701:roots. ,
		Q82	ratio promotes the formation of	9702:callus. ,
				9703:embryos.,
				9704:shoots.,
84	2427	DU_J19_	Which one of the following genes does not confer	9705: <i>EPSPS</i> ,
		MSC_BOT Q83	resistance to a herbicide?	9706: <i>pat</i> ,
		_Q63		9707: <i>ALS</i> ,
				9708: <i>nptII</i> ,
85	2428	DU_J19_	Which one of the following statements about cDNA	9709:They are generally composed of
		MSC_BOT	libraries <u>is not</u> correct?	larger fragments as compared to
		_Q84		genomic DNA libraries ,
				9710:They can be used to study
				alternatively spliced forms of a gene ,
				9711:They can be used to study
				quantitative variations in gene
				expressions levels between different
				tissues .
				9712:They can be used to analyse
				variations in gene expression patterns
				between different developmental stages
				of a plant ,
86	2429	DU_J19_	Which one of the following crops was the first to	9713:Maize ,
		Q85	have its nuclear genome sequenced?	9714:Wheat ,
		_602		9715:Rice ,
				9716:Barley ,
87	2430	DU_J19_	The term "Bio-pharming" refers to	9717:genetically modified foods from
		MSC_BOT		plants.,

		_Q86		9718:synthesis of drugs from transgenic plants/animals. ,
				9719:recombinant drugs from bacteria.,
				9720:large scale farming of medicinal plants. ,
88	2431	DU_J19_	Which of the following is the regulatory body	9721:NBPGR ,
		MSC_BOT	conferring approval for transgenic plants?	9722:NBA ,
		_Q87		9723:GEAC ,
				9724:NBRI ,
89	2432	DU_J19_ MSC_BOT	Identify the incorrect combination from the following:	9725:Protoplast – E.C. Cocking ,
		_Q88		9726:Edible vaccine – C.J. Arntzen ,
				9727:Somaclonal variation – F.C.
				Steward ,
				9728:GUS reporter system - R.A.
	2.422	D.I. 140		Jefferson ,
90	2433	DU_J19_ MSC_BOT	Similarity resulting from common ancestry is called	
		_Q89		9730:homology,
		_403		9731:homonym ,
				9732:convergence ,
91	2434		Which one of the following is the most	9733:Amborella ,
		_Q90	primitive basal angiosperm?	9734: <i>Nymphaea</i> ,
		_Q90		9735:Magnolia ,
				9736: <i>Hibiscus</i> ,
92	2435	DU_J19_	In species where pollen matures and is released	9737:protogyny ,
			prior to the maturation and receptivity of the gynoecium, the condition is called	9738:protoandry ,
		_Q91	gynoecium, the condition is called	9739:dichogamy ,
				9740:androdioecy,
93	2436		Which one of the following statements <u>is</u>	9741:All taxonomic keys are
		MSC_BOT	<u>not</u> correct?	dichotomous.,

		_Q92		9742:All keys comprise sequence of two contrasting statements, each statement is known as a lead. ,
				9743:In a taxonomic key, the two leads together comprise a couplet. ,
				9744:Keys are based on phylogeny.,
94	2437	DU_J19_ MSC_BOT _Q93	Glucosinolates do not occur in	9745:Brassicaceae , 9746:Papaveraceae , 9747:Capparaceae , 9748:Fabaceae ,
95	2438		A pollen grain with colpi occurring in the equatorial region is called	9749:zonocolpate , 9750:zonoporate , 9751:zonoaperturate , 9752:colporate ,
96	2439		A binomial in which the genus name and specific epithet are identical in spelling is called	9753:Autonym , 9754:Tautonym , 9755:Synonym , 9756:Basionym ,
97	2440	DU_J19_ MSC_BOT _Q96	Which one of the following is not a member of Poaceae?	9757:Hordeum vulgare , 9758:Triticum aestivum , 9759:Cynodon dactylon , 9760:Secale cereale ,
98	2441	DU_J19_ MSC_BOT _Q97	Lloyd Botanical Garden is located at	9761:Darjeeling , 9762:Ootacamund , 9763:Srinagar (Kashmir) , 9764:Dehra Dun ,
99	2442	DU_J19_ MSC_BOT _Q98	Which series is not included in the Gamopetalae in Bentham and Hooker's system of classification?	9765:Inferae , 9766:Heteromerae , 9767:Bicarpoellatae , 9768:Thalamiflorae ,
100	2443	DU_J19_	Syngenesious stamens are characteristic of the	9769:Ranunculaceae ,

MSC_BOT	family 9770	0:Malvaceae ,
_Q99	9771	1:Asteraceae ,
	9772	2:Brassicaceae ,