DU MSc Microbiology

		Question			
Sr.No	Question Id	Descripti on	Question Body	Options	
1	25183	MSC_MIC	In year 1898, Martinus Beijerinck confirmed Iwanowski's results on tobacco mosaic virus and	40727:	Contagious vital flow,
		RO_Q01	described it with phrase "Contagium Vivum Fluidum" which means	40728:	Soluble living germ,
				40729:	Fluid contamination,
				40730:	Flowing infectious particle,
2	25184	DU_J19_ MSC_MIC	Which of these require a helper virus for replication	40731: (TPMVd),	Tomato planta macho viroid
		RO_Q02		40732:	Hepatitis B virus (HBV),
				40733:	Hepatitis delta virus (HDV),
				40734:	Adenovirus (AV),
3	25185	DU_J19_	Choose the most appropriate option from below	40735:	Paracrine only,
		MSC_MIC	when considering forms of intracellular signaling:	40736:	Exocrine only,
		RO_Q03		40737:	Synaptic only,
				40738:	Paracrine, endocrine and
				synaptic,	
4	25186	DU_J19_	The process by which actin filaments are	40739:Tre	
		MSC_MIC RO_Q04	maintained at a constant length by the addition of subunits at one end and the removal of subunits at	40740:Tra	nslocation ,
		NU_Q04	the other end is called:	40741:Tra	-
				40742:Nuc	· ·
5	25187	DU_J19_ MSC_MIC	Yogurt is produced by which of the following types of fermentation processes?	40743:	Mesophilic fermentation,
		RO_Q05		40744:	Thermophilic fermentation,

				40745: fermentat 40746: fermentat	Is not produced by
6	25188	DU_J19_ MSC_MIC RO_Q06	The presence of <i>Pedicoccus cerevisiae</i> in beer causes which of the following diseases	40747:	Sleeping sickness,
		110_000		40748:	Sarcina sickness ,
				40749:	Pulmonary embolism,
				40750:	Septic sore throat,
7	25189	DU_J19_	The members of which bacterial phylum have their	40751:	Chlamydia,
		MSC_MIC	genetic material enclosed in a membrane?	40752:	Planctomycetes,
		RO_Q07		40753:	Proteobacteria,
				40754:	Actinobacteria,
8	25190	DU_J19_ MSC_MIC	Rod in chain is the morphology of	40755:	Bacillus pumilus ,
		RO_Q08		40756:	Bacillus megaterium ,
				40757:	Bacillus licheniformis ,
				40758:	Bacillus subtilis ,
9	25191	DU_J19_ MSC_MIC	Which of the following is not true for a bacteriophage?	40759:	A very simple structure,
		RO_Q09		40760:	Consist of either DNA or
				RNA,	
				40761:	Bacteriophages are viruses,
				40762: infects ba	Complex structure that cteria,
					·
10	25192	DU_J19_ MSC_MIC	Lysogenic strains of bacteriphage are also called	40763:	Temperate phages,
		RO_Q10		40764:	Virulent Phages,

				40765:	Filamentous Phages,
				40766:	Atemperate Phages,
11	25282	DU_J19_ MSC_MIC	A draft tube is generally fitted in which of the following bioreactor design types?	41123:	Air-Lift Bioreactor,
		RO_Q100		41124:	Fluidized-Bed Bioreactor,
				41125:	Membrane Bioreactors,
				41126:	Cyclone Bioreactors,
12	25193	DU_J19_ MSC_MIC RO_Q11	DNA polymerase I is:	40767: that synth DNA replic	The primary polymerase esizes long DNA chains during ation,
				40768: the nucleo	A polymerase that is part of tide excision repair pathway,
				40769: activity,	Devoid of proof-reading
				40770: replisome,	A part of the eukaryotic
13	25194	DU_J19_ MSC_MIC RO_Q12	The protein that triggers the SOS response to DNA damage is:	40771: 40772: 40773: 40774:	LexA, FEN1, RecA, AP endonuclease,
14	25195	DU_J19_ MSC_MIC	The natural inhibitory substances present in milk are	40775:	Lactose and fats,
		RO_Q13		40776:	Casein and fructose,
				40777:	Cholesterol and fat,

				40778: Agglutinins	Lactoperoxidase and ,
15	25196	DU_J19_ MSC_MIC	The main microorganism in tempeh production at an industrial scale is	40779:	Rhizopus oligosporus ,
		RO_Q14		40780:	Actinimucor elegans ,
				40781:	Aspergillus oryzae ,
				40782:	Aspergillus niger ,
16	25197	DU_J19_	Bacteria having linear chromosome	40783:	Pseudomonas ,
		MSC_MIC		40784:	Vibrio ,
		RO_Q15		40785:	Mycoplasma ,
				40786:	Borrelia ,
17	25198	DU_J19_	Which of these is not a function of teichoic acid?	40787:	Protects the cell from
		MSC_MIC RO_Q16		harmful sul 40788:	bstance, Maintains the structure of
				cell envelor	-
				40789:	Has a role in cell division,
				40790:	Anchors LPS in outer
18	25199	DU_J19_	When originally conceived, the Baltimore scheme of	membrane	
18	22133	MSC_MIC	classification of viruses consisted of only six	40791:	DNA viruses with RNA
		RO_Q17	classes. Which class of viruses was added	Intermedia	te in life cycle,
			subsequently to this scheme?	40792:	Viruses which require helper
				viruses to r	
				40793:	Viruses which do not
				encode any 40794:	/ proteins, RNA viruses with segmented
				genomes,	Rive viruses with segmented
19	25200	DU_J19_	Which one of these does not function as a receptor	40795:	CD4,
		MSC_MIC	or co-receptor for HIV-1 virus	40796:	CCR5,
		RO_Q18		40797:	CXCR4,

				40798:	CAR4,
20	25201	DU_J19_	The primase responsible for initiating the synthesis	40799:	DnaA,
		MSC_MIC	of each Okazaki fragment is:	40800:	DnaB ,
		RO_Q19		40801:	DnaC,
				40802:	DnaG,
21	25202	DU_J19_	In RNA splicing, an intermediate consisting of a	40803:	lariat,
			circular structure with a tail that is created by a 5'	40804:	branch site,
		RO_Q20	to 2' bond is called:	40805:	spliceosome,
				40806:	stem loop,
22	25203	DU_J19_	Water activity (aw) of pure water is	40807:	1.0,
		MSC_MIC		40808:	0.75,
		RO_Q21		40809:	0.5,
				40810:	0.25,
23	25204	DU_J19_	Which of the following regions of the atmosphere is	40811:	Troposphere,
		MSC_MIC	very important in the dispersal of microbes?	40812:	Stratosphere,
		RO_Q22		40813:	Mesosphere,
				40814:	Ionosphere,
24	25205	DU_J19_	Lysozyme attacks bacterial cell wall by	40815:	Breaking peptide interbridge,
		MSC_MIC			
		RO_Q23		40816:	Inhibiting transpeptidation,
				40817:	Breaking glycosidic linkage,
				40818:	Donboonbondating aming
					Dephosphorylating amino
					he peptidoglycan layer,
25	25206	DU_J19_	Ziehl-Neelsen staining can be used to stain	40819:	Mycobacterium
		MSC_MIC		tuberculo	
		RO_Q24		40820:	Nocardia only ,
				40821:	Both Mycobacterium
					sis and Nocardia ,

					Neither <i>Mycobacterium</i> s nor <i>Nocardia</i> ,
26	25207	DU_J19_ MSC_MIC	Which one of these viruses is associated with a rare skin cancer in humans	40823:	Epstein Barr Virus,
		RO_Q25		40824:	Merkel Cell Polyomavirus,
				40825:	Hepatitis B Virus,
				40826: Virus Type	Human T-Cell Lymphotropic
27	25208	DU_J19_ MSC_MIC	The bivalent Poliovirus vaccine contains	40827:	Type 1 and Type 2 strains,
		RO_Q26		40828:	Type 1 and Type 3 strains,
				40829:	Type 2 and Type 3 strains,
				40830:	There is no bivalent polio
28	25209	DU_J19_	The three main tRNA binding sites in the ribosome	vaccine, 40831:	A, D, E,
		MSC_MIC	are:	40832:	A, P, E,
		RO_Q27		40833:	A, E, T,
				40834:	А, Р, Т,
29	25210	DU_J19_ MSC_MIC	Saccharomyces cerevisiae is	40835:	A facultative anaerobe,
		RO_Q28		40836:	A facultative aerobe,
				40837:	An obligate aerobe,
				40838:	An obligate anaerobe,
30	25211	DU_J19_ MSC_MIC	The fungus <i>Glomerella tucumanensis</i> causes	40839:	Red rot disease of
		RO_Q29		sugarcane, 40840:	Black rot of crucifers,

				40841:	Black rot of sugarcane,
				40842:	Green rot of crucifers,
31	25212	DU_J19_ MSC_MIC RO_Q30	Which of the following enzyme's activity is unique to heterofermentative lactic acid bacteria	40843: 40844: 40845: 40846:	Transaldolase, Transketolase , Phosphoketolase, Phosphoaldolase ,
32	25213	DU_J19_ MSC_MIC RO_Q31	Which of the following is transported by facilitated diffusion in <i>E. coli</i> ?	40846: 40847: 40848: 40849: 40850:	Glucose, Maltose, Glycerol, Lactose,
33	25214	DU_J19_ MSC_MIC RO_Q32	The first viral vector-based gene therapy to be approved for clinical use in humans	40851:Ge adenoviru wildtype p 40852:Glv associated hereditary 40853:Str gammare very rare Immunod Deaminas 40854:No	endicine, recombinant is engineered to express
34	25215	DU_J19_ MSC_MIC	Influenza A virus genome consist of	40855: sense RN	Eight segments of negative A,

		ко_бзз		40856: sense RNA, 40857: sense RNA, 40858: stranded R	Ten segments of negative , Twelve segments of double
35	25216	DU_J19_ MSC_MIC RO_Q34	A lambda phage carrying a mutation in the nutR site would form:	40859: 40860: 40861: edge, 40862:	turbid plaques, clear plaques, small plaques with fuzzy no plaques,
36	25217	DU_J19_ MSC_MIC RO_Q35	The ability of microorganisms to maintain balance internally against stress is called	40863: 40864: manageme 40865: 40866:	Ecosystem management, Biological spectrum
37	25218	DU_J19_ MSC_MIC RO_Q36	Anderson sampler is employed to enumerate microbes in	40867: 40868: 40869: 40870:	Polluted rivers, Deep ocean, Atmosphere, Ground water,
38	25219	DU_J19_ MSC_MIC RO_Q37	Which of the following is the mode of action of formaldehyde	40871: 40872: plasma me 40873: nitrogen co 40874:	Shows oxidizing property, Changes permeability of mbrane, Combines with vital
39	25220	DU_J19_ MSC_MIC RO_Q38	Which of the following compounds cannot give rise to the net synthesis of glucose	40875: 40876: 40877:	Lactate, Glycerol, Acetyl CoA,

				40878:	Oxaloacetate,
40	25221	DU_J19_	Which of the following provides the longest lasting	40879:	Naturally acquired passive
		MSC_MIC	immunity to host against an infectious agent?	immunity,	
		RO_Q39		40880:	Artificially acquired passive
				immunity,	
				40881:	Naturally acquired active
				immunity,	
				40882:	Artificially acquired active
				immunity,	
41	25222	DU_J19_	Which of the following substances will not stimulate	40883:	Antigen,
		MSC_MIC RO_Q40	an immune response unless they are bound to a larger molecule?	40884:	Virus,
		KU_Q40		40885:	Hapten,
				40886:	Miligen,
42	25223	DU_J19_	A DNA fragment to be used as a probe in Southern	40887:	nick translation,
		MSC_MIC RO_Q41	blotting could be radiolabelled by:	40888:	S1 nuclease treatment,
				40889:	DNA footprinting,
				40890:	DNAseI treatment,
43	25224	DU_J19_ MSC MIC	Which of the following is known as a blue enzyme for green chemistry	40891:	Glucose oxidase,
		RO_Q42		40892:	Superoxide Dismutase ,
				40893:	Laccase,
				40894:	Pectinase,
44	25225	DU_J19_ MSC_MIC	Eutrophication process with reference to a water body is a sudden increase in	40895:	CO ₂ consumption,
		RO_Q43		40896:	Copper and iron,
				40897:	Phosphorus and nitrogen,
				40898:	Carbon sources,
45	25226	DU_J19_ MSC_MIC	The Michaelis constant Km is	40899:	Numerically equal to $\frac{1}{2}$ V _{max} ,

		KU_Q44		40900: concentrat 40901: substrate o maximal v	Numerically equal to concentration that gives half-
				40902: the V _{max} ,	Numerically equal to twice
46	25227	DU_J19_ MSC_MIC	Which of the following enzyme's activity is dependent on thiamine?	40903:	pyruvate carboxylase,
		RO_Q45		40904:	fumarase,
				40905:	a-ketoglutarate
				dehydroge	enase,
				40906:	citrate synthase,
47	25228	DU_J19_	Which of the following immune cells or molecules	40907:	T helper cells,
		MSC_MIC	are most effective at destroying intracellular	40908:	B cells,
		RO_Q46	pathogens?	40909:	Complement,
				40910:	T cytolytic cells,
48	25229	DU_J19_	The specificity of an antibody is due to	40911:	Its valence,
		MSC_MIC RO_Q47		40912:	The heavy chains,
				40913:	The Fc portion of the
				molecule,	T I
				40914:	The variable portion of the
				neavy and	light chains,
49	25230	DU_J19_	Forensic analysts use DNA fingerprinting, a	40915:	RAPD,
		MSC_MIC	technique based on:	40916:	DNA sequencing,
		RO_Q48		40917:	RFLP,
				40918:	RACE,
50	25231	DU_J19_ MSC_MIC	Plasma arc furnace during incineration is generally used for	40919:	Solid waste management,
		RO_Q49		40920:	Ethanol distillation,

				40921:	Acetic acid distillation,
				40922: sequestrati	Carbon dioxide
51	25232	DU_J19_	The Most Probable Number (MPN) method is based	40923:	Poisson distribution,
		MSC_MIC RO_Q50	on which of the following statistical distribution methods?	40924:	Binomial distribution,
				40925:	Geometric distribution,
				40926:	Discrete uniform distribution,
52	25233	DU_J19_	During oxygenic photosynthesis, O2 is evolved from	40927:	Carbohydrate,
		MSC_MIC		40928:	Sunlight,
		RO_Q51		40929:	Carbon dioxide,
				40930:	Water ,
53	25234	DU_J19_	A mutation is most likely to change three-	40931:	It changes the amino-
		MSC_MIC RO_Q52	dimensional conformation of a protein if	terminal ar	
		RU_Q52		40932:	It changes the carboxy-
				terminal ar	nino acid,
				40933:	It introduces proline in the
				middle of a	in alpha helix,
				40934:	There is a substitution of
				hydrophob	ic amino acid in place of
				hydrophilic	amino acid,
54	25235	DU_J19_	Defects in neutrophil NADPH oxidase system	40935:	Chronic granulomatous
		MSC_MIC RO_Q53	produce:	disease,	
		KO_Q33		40936:	Chediak-Higashi disease,
				40937:	Hashimoto's disease,
				40938:	Leukocyte adhesion
				deficiency,	-

55	25236	DU_J19_ MSC_MIC RO_Q54	Pattern recognition receptors (PRR) include	40939: 40940: 40941: 40942:	LPS, PAMPs, Lipoteichoic acid, Lectin-like molecules,
56	25237	DU_J19_ MSC_MIC RO_Q55	Non-composite bacterial transposons replicate by:	40943: 40944: 40945: 40946:	cut-and-paste mechanism, replicative mechanism, dispersive mechanism, sigmoidal mechanism,
57	25238	DU_J19_ MSC_MIC RO_Q56	The composition of Bordeaux mixture is	40947: Zinc chlori 40948: Potassium 40949: hydroxide, 40950: Sodium hy	Sodium hydroxide and hydroxide, Copper sulfate and Calcium Calcium hydroxide and
58	25239	DU_J19_ MSC_MIC RO_Q57	The mechanism of plant pathogen control by <i>Trichoderma</i> is <i>via</i>	40951: 40952: 40953: 40954: and compe	Antibiosis only , Mycoparasitism only , Competition only , Antibiosis, mycoparasitism etition ,
59	25240	DU_J19_ MSC_MIC RO_Q58	Which of the following act as a test organism in the procedure of the phenol-coefficient method	40955: 40956: 40957:	<i>Escherichia coli , Salmonella typhi , Lactobacillus ,</i>

				40958:	Streptococcus faecalis ,
60	25241	DU_J19_ MSC_MIC RO_Q59	Which of the following is used to disinfect skin but is not sporicidal	40959: 40960: 40961: 40962:	Formaldehyde, Chlorine, Ethylene oxide, Quaternary ammonium salts,
61	25242	DU_J19_ MSC_MIC RO_Q60	Which of the following gene clusters do not contribute to antigen binding capabilities of antibodies	40963: 40964: 40965: 40966:	VL, CL, VH, D,
62	25243	DU_J19_ MSC_MIC RO_Q61	Which of the following statements does not apply to IgG	40967: immune r 40968:	Appears early in the primary
				40969: 40970:	Can fix complement, Crosses the human placenta,
63	25244	DU_J19_ MSC_MIC RO_Q62	The microbial test used to assess the carcinogenic potential of a chemical compound is called:	40971: 40972: 40973: 40974:	Microbial Limits test, Bioburden test, Ames Test, Coliform test,
64	25245	DU_J19_ MSC_MIC RO_Q63	Rice tungro disease is caused by	40975: 40976: 40977: 40978:	Bacteria, Yeast, Fungi, Viruses,
65	25246	DU_J19_ MSC_MIC RO_Q64	Polygalacturonases (PG) split pectin chain by	40979: two galac 40980:	Breaking linkages between turonic acid residues , Removing two water s from the linkage,

				40981: Catalyzing the hydrolysis of two methyl esters,
				40982: Breaking N-glycosidic bond,
66	25247	DU_J19_	Disposable petridishes are pre-sterilized by	40983: Ethylene oxide,
		MSC_MIC RO_Q65		40984: Gamma irradiation,
				40985: Steam,
				40986: Beta irradiation,
67	25248	DU_J19_ MSC_MIC	During oxidative phosphorylation, the proton motive force generated by electron transport is	40987: Reduce O ₂ to H ₂ O ,
		RO_Q66	used to	40988: Induce a conformational
				change in ATP synthase ,
				40989: Generate the substrates
				ADP + Pi for ATP synthesis ,
				40990: Oxidize NADH to NAD+ ,
68	25249	DU_J19_ MSC_MIC	Antibody titer refers to the	40991: Affinity of specific antibody,
		RO_Q67		40992: Absolute amount of specific
				antibody,
				40993: Concentration of specific
				antibody, 40994: Highest dilution of antibody
				still able to give a positive result in a
				test system,
69	25250	DU_J19_	Langerhans' cells are found in	40995: Lymph,
		MSC_MIC RO_Q68		40996: Lymph nodes,
				40997: Periarteriolar lymphoid
				sheaths,
				40998: Skin,

70	25251	DU_J19_ MSC_MIC	When making genomic DNA libraries for whole genome sequencing the choice of vectors to be	40999:	Plasmids and cosmids,
		RO_Q69	used would be:	41000:	M13 and lambda phage
				vectors,	
				41001:	Phagemids and plasmids,
				41002:	BACs and YACs,
71	25252	DU_J19_ MSC_MIC	Phaseolotoxin is produced by	41003:	Pseudomonas syringae ,
		RO_Q70		41004:	Pyricularia grisea ,
				41005:	Pseudomonas aeruginosa ,
				41006:	Pseudomonas fluorescens ,
72	25253	DU_J19_	Which one of the following mathematical	41007:	$\mu = 1/X^*(dX/dt),$
		MSC_MIC	expressions correctly depicts the specific growth	41008:	$\mu = 1/P^*(dP/dt),$
		RO_Q71	rate of the microorganism, where X is biomass, S is substrate, P is product, and μ is specific growth	41009:	µ=1/p*(dS/dt),
			rate.	41010:	$\mu=1/S^{*}(dP/dt),$
73	25254	DU_J19_	Heterothallism in fungi was discovered by	41011:	Albert Blakeslee,
		MSC_MIC RO_Q72		41012:	Pontecarvo & Roper,
				41013:	J. Alexopoulos,
				41014:	G.W. Martin,
74	25255	DU_J19_ MSC_MIC	The only firmicutes known to be phototrophic	41015:	Corynebacterium ,
		RO_Q73		41016:	Halobacterium ,
				41017:	Heliobacteria ,
				41018:	Bifidobacterium ,
75	25256	DU_J19_	Which type of toxin is Tetanus toxin	41019:	Enterotoxin,
		MSC_MIC		41020:	Neurotoxin,
		RO_Q74		41021:	Cytotoxin,
				41022:	Endotoxin,

76	25257	DU_J19_	Which of the following is a plasmid-mediated toxin?	41023:	Diphtheria toxin,
		MSC_MIC		41024:	Botulism toxin,
		RO_Q75		41025:	Tetanus toxin,
				41026:	Food-poisoning toxin
				of <i>S.aureu</i>	IS ,
77	25258	DU_J19_	In <i>lac I</i> s mutants, the lac operon would be:	41027:	non-inducible,
		MSC_MIC RO_Q76		41028:	constitutive,
		KU_Q70		41029:	inducible,
				41030:	repressible,
78	25259	DU_J19_	Under ideal conditions in continuous stirred-tank	41031:µ>	·D,
		MSC_MIC	reactor (CSTR), when will biomass accumulation	41032:µ=D,	
		RO_Q77	take place in the fermentor?	41033:µ <d,< td=""></d,<>	
				41034:There is no relation between μ	
				and D ,	
79	25260	DU_J19_	Under ideal conditions during ethanol production	41035:	30 g/L,
		MSC_MIC RO_Q78	where there are no by-products, how much maximum ethanol can be recovered from	41036:	41 g/L,
		KU_Q70	fermentation broth initially supplied with 100 g/L of	41037:	51 g/L,
			glucose?	41038:	100 g/L,
80	25261	DU_J19_	Which of the following is most hyperthermophilic	41039:	Methanocaldococcus ,
		MSC_MIC RO_Q79	methanogen		
		KU_Q79		41040:	Methanobrevibacter ,
				41041:	Methanopyrus ,
				41042:	Methanobacterium ,
81	25262	DU_J19_	Pyrococcus is given the species	41043:	It is an extremophile with
		MSC_MIC RO_Q80	name <i>furiosus</i> because	optimum g	growth temperature of 100 $^\circ ext{C}$,
				41044: polytricho	It is cocci in shape with us flagellation ,

					It has 37 minutes of time at boiling temperature and pid swimming ,
				41046: system ,	It has an unusual respiratory
82	25263	DU_J19_	Common opportunistic infections in patients with	41047:	Influenza,
		MSC_MIC RO_Q81	reduced antibody responses are	41048:	Intestinal helminths,
				41049:	Encapsulated bacteria,
				41050:	Atypical mycobacteria,
83	25264	DU_J19_	A pathogen which typically causes immune	41051:	Measles virus ,
		MSC_MIC	deficiency and increases the risk of secondary	41052:	Toxoplasma ,
		RO_Q82	infection is	41053:	Candida albicans ,
				41054:	Rabies virus ,
84	25265	DU_J19_	The genome-wide in vivo binding sites of a	41055:	protein array,
		MSC_MIC	transcriptional activator can be identified by:	41056:	DNA microarray,
		RO_Q83		41057:	ChIP-seq,
				41058:	EMSA,
85	25266	DU_J19_	What is the temperature at which microbial	41059:	– 196ºC ,
		MSC_MIC	cultures are being preserved when they are stored	41060:	- 126°C ,
		RO_Q84	in liquid Nitrogen?	41061:	- 100°C ,
				41062:	- 80°C ,
86	25267	DU_J19_ MSC_MIC	Which of the following industrial products is recovered cost-effectively using liquid-liquid	41063:	Amylase enzyme ,
		RO_Q85	extraction process from fermentation broth?	41064:	Citric acid ,
				41065:	Penicillin G ,
				41066:	None of these ,
87	25268	DU_J19_	Archaeal membranes differ from the eubacterial	41067:	Isoprene units only,
		MSC_MIC RO_Q86	membranes as they possess	41068:	Tetraethers only,

				41069:	Long chain fatty acids only,
				41070: and long c	Isoprene units, tetraethers hain fatty acids,
88	25269	DU_J19_ MSC_MIC	Biological indicator usually used to check working of an autoclave is	41071:	Spores of <i>Bacillus subtilis</i> ,
		RO_Q87		41072:	Vegetative cells
				of Clostrid	ium botulinum ,
				41073:	Spores of Clostridium ,
				41074:	Spores of Geobacillus
				stearother	mophilus ,
89	25270	DU_J19_	Place the following five steps of ELISA in the	41075:	5, 4, 3, 2, 1,
		MSC_MIC RO_Q88	correct order. 1. Add sample serum to each well. 2. Enzyme substrate is added to each well. 3. Anti- antibodies with enzyme are added to each well. 4.	41076:	4, 5, 1, 3, 2,
			Each well is coated with antigen molecules in solution. 5. Excess antigen is washed and gelatin is used to coat any surface not coated with antigen.	41077:	1, 2, 3, 5, 4,
			used to coat any surface not coated with antigen.	41078:	4, 5, 2, 1, 3,
90	25271	DU_J19_	RTS,S/AS01 is a vaccine currently undergoing	41079:	Kala Azar,
		MSC_MIC	clinical trial in humans against which disease or	41080:	Malaria,
		RO_Q89	organism	41081:	Dengue,
					licobacter pylori ,
91	25272	DU_J19_ MSC_MIC	Which of the following factors influence the filtration rate in a Cross-flow filtration strategy	41083:	Temperature only,
		RO_Q90	during fermentation?	41084:	Viscosity only,
				41085:	Pressure only,
				41086:	Temperature, viscosity and
				pressure,	
92	25273	DU_J19_ MSC_MIC	The media for recombinant protein production in mammalian cells can be sterilized by	41087:	Autoclaving at 121 _° C ,
		RO_Q91		41088:	Boiling at 100 _° C ,

				41089: Filtration , 41090: A combination of all of these ,
93	25274	DU_J19_ What do MDR-TB and X MSC_MIC RO_Q92	What do MDR-TB and XDR-TB stand for	41091: Maximum-drug resistant tuberculosis and Extremely-drug resistant tuberculosis,
				41092: Maximum-drug resistant tuberculosis and X-drug resistant tuberculosis. 41093: Multi-drug resistant tuberculosis and Extensively-drug
				resistant tuberculosis,
				41094: Multi-drug resistant tuberculosis and X-drug resistant
94	25275	DU_J19_	Griseofulvin is used in the treatment of	tuberculosis. 41095: Dermatophyte infections ,
		MSC_MIC RO_Q93		41096: Herpesvirus infection ,
				41097: Staphylococcus infection ,
				41098: All of these ,
95	25276	DU_J19_ MSC_MIC	Deinococcus radiodurans is radiation resistant bacterium because it accumulates high levels of	41099: Calcium, 41100: Manganese,
		RO_Q94		41101: Magnesium, 41102: Zinc,
96	25277	DU_J19_ MSC_MIC RO_Q95	In a fluid of newtonian viscosity, the rate of sedimentation of spherical particles during centrifugation is proportional to	41102: Zinc, 41103: Square of the diameter of the particles, 41104: The diameter of the particles,
				41105: Half of the diameter of the particles,
				41106: Cube of the diameter of the particles,

97	25278	DU_J19_ MSC_MIC RO_Q96	What is sulfite waste liquor?	41109: industry, 41110:	A by-product from the paper A by-product from the verage industry, A by-product from Dye A by-product from the sugar
				cane indus	stry,
98	25279	DU_J19_ MSC_MIC RO_Q97	Without vaccination, which of these infections is almost 100% fatal	41111: 41112: 41113: 41114:	HIV, Zika virus, Ebola virus, Rabies virus,
99	25280	DU_J19_ MSC_MIC RO_Q98	A patient with <i>H. pylori</i> infection is treated with drugs. The best method to detect presence of residual <i>H.pylori</i> infection in this person is	41115: 41116: 41117: 41118:	Rapid urease test, Urea breath test, Endoscopy and biopsy,
100	25281	DU_J19_ MSC_MIC RO_Q99	Lignin in the plant cell wall is degraded by	41118: 41119: 41120: 41121: 41122:	Serum anti <i>H.pylori</i> titer, Polyphenol oxidases, β-glucosidases , Glucose oxidase, Xanthine oxidase,