LIFE SCIENCE

(Final)

1.		Escherichia coli fully labelled with ¹⁵ N is allowed to grow in ¹⁴ N medium. The two strands of DNA molecule of the first generation bacteria have					
	(A) (B) (C) (D)	different density and do not rese different density but resemble pare same density and resemble pare same density but do not resemb	arent I ent DN	ONA A			
2.	Codon	of mRNA and anticodon of tRNA	A is ma	de-up of			
	(A) (B) (C) (D)	•	es, resp	pectively			
3.	Double	Double stranded DNA virus with 20,000 base pairs has a total number of nucleotides					
	(A) (C)	20,000 666	(B) (D)	10,000 40,000			
4.	Circula	r DNA is present in					
	(A) (B) (C) (D)	endoplasmic reticulum (ER) and ribosomes and chloroplasts ribosomes and mitochondria mitochondria and chloroplasts	d ribos	omes			
5.	In split	genes, the coding sequences are	called				
	(A) (C)	Exons Cistrons	(B) (D)	Introns Operons			
6.	Nuclean	Nuclear DNA sends information for cytoplasmic protein synthesis through					
	(A) (C)	tRNA rRNA	(B) (D)	mRNA miRNA			
7.	Which	is not always true for DNA?					
	(A) (C)	A + G = C + T $A = T$	(B) (D)	A + T = G + C $G = C$			



8.	The number of different types of gametes produced from a plant with genoty AaBbCc is					
	(A)	one	(B)	two		
	(C)	four	(D)	sixteen		
9.	Gregore	e Johannes Mendel could not find	recor	nbination and crossing over as		
	(A)	traits he chose were either prese far apart	nt on	different chromosomes or were		
	(B)	traits chosen by him were not inf				
	(C) (D)	he did not have a high power miche selected only pure types	crosco	ope		
	, ,			~35		
10.		cteria grown in the medium conta ration in the	ining	S^{35} as lone source of sulphur show its		
	(A)	DNA	(B)			
	(C)	RNA	(D)	Glycerol		
11.	Haploid	ds are preferred over diploids for r	nutati	on studies because in haploids		
		A) recessive mutations express immediately				
		1				
		tissue culture is easy				
12.	-	nenomenon of exchange of s somes is termed as	egme	ents between paternal and maternal		
	(A)	linkage	(B)	recombination		
	(C)		(D)			
13.	Mutatio	on in which one base is replaced by	y ano	ther base, is termed as		
	(A)	addition	(B)	deletion		
	(C)	translocation	(D)	substitution		
14.	Jumpin	g genes are also known as				
	(A)	Transposons	(B)	miRNA		
	(C)	Exon	(D)	Intron		
15.	Isoelect	ric focussing method for separation	on of	proteins works on the principle of		
	(A)	electrophoretic separation base residues	d on	relative content of acidic and basic		
	(B)	mass of the protein molecules				
	(C) (D)	number of amino acids coagulation capacity of protein	nolea	rules		
	(-)					



16.	The use of colchicine is involved in the production of			tion of
	(A) (C)	somaclonal variation hybrids	(B) (D)	haploids polyploids
17.		tion of secondary metabolites is the employment of	(new	term being: specialized metabolites)
	(A) (C)	protoplast cultures auxillary bud cultures	(B) (D)	apical meristem cultures cell suspension cultures
18.	What ro	ole do opines play in crown gall d	isease	?
	(B) (C)	source of carbon, nitrogen and e transfer of T-DNA to plant cell attachment of <i>Agrobacterium tu</i> induction of the expression of <i>vi</i>	mefac	-
19.	polyphe			major problems is the production of be tackled to varying degrees by the
	(A) (C)	Agar-agar Sucrose	(B) (D)	Vitamins Polyvinylpyrrolidine (PVP)
20.	Datura regener		e plai	nts. What would be the ploidy of the
		Haploid Diploid	(B) (D)	1 1
21.	Hormon	ne pair required for a callus to dif	ferent	iate is
		Auxin and cytokinen Ethylene and gibberellin		Auxin and gibberellin Cytokinin and gibberellin
22.	Commo	only used reporter gene in plant ex	kpress	ion vector is
	(A) (B) (C) (D)	Ti plasmid gene of Agrobacteria GUS gene β - Lactamase gene α - anylase gene	ım tun	nifaciens
23.	Cybrids	s are produced by		
	(A)	fusion of two different nuclei fro	om tw	o different species

(B) fusion of two same type nuclei from same species

(C) nucleus of one species but cytoplasm from both the parent species(D) fusion of two chloroplasts from the same species



24.	The phytohormone producing apical dominance is				
	(A) (C)	Auxin Ethylene	(B) (D)		
25.	Which of the following phytohormone is connected with cell division?				
	(A) (C)	Kinetin Gibberellic acid (GA ₃)	. /	2, 4 - D IAA	
26.	Why plant cells and tissue need external carbon source in the culture medium?			source in the culture medium?	
		because of lack of autotrophic abbecause of lack of absorption abbecause of lack of regeneration abbecause of lack of endosmosis in	ility ibility		
27.	Mitotic	spindle is formed by bundles of			
	(A) (C)	microtubules microbodies	(B) (D)	microfilaments intermediate filaments	
28.	Which	of the following are essential fally	acids	?	
		Linoleic and linolenic acid Oleic acid	(B) (D)		
29.	The mo	ost important part of cell-cycle wh	ich is	not observed under light microscope is	
	(A) (C)	Interphase Metaphase	(B) (D)	Anaphase Telophase	
30.	How m	any primary spermatocytes will fo	rm 4(00 spermatozoa?	
	(A) (C)	400 100	(B) (D)	200 50	
31.	Compe	titive inhibition is due to			
	(A) (B) (C) (D)	protein poison substrate analogue non-availability of activation end short wave irradiation	ergy		
32.	End pro	oduct inhibition is called			
	(A) (C)	substrate regulation irreversible inhibition	(B) (D)	feed-back regulation non-competitive inhibition	



33.	Some antibiotics act as ionophores, which means that they					
	(A) (B) (C) (D)	interfere directly with bacterial cell-wall synthesis inhibit only translation increase cell membrane permeability to specific ions inhibit both translation and transcription				
34.	Which crystals		s was	first isolated and purified in the form of		
	(A) (C)	Urease Amylase	(B) (D)	Pepsin Ribonuclease		
35.	The rele	ease of adenyl cyclase from the ce	ll mei	mbrane converts		
	(A) (C)	ATP into ADP cAMP into ATP	(B) (D)			
36.	The enz	zyme used to dissolve blood clot in	1 coro	nary artery is		
	(A) (C)	Thrombokinase Streptokinase	(B) (D)	Renin Tyrosinase		
37.	The pla time is	ant enzyme that acts both as carbo	xylas	e at one time and oxygenase at another		
	(A) (C)	carbonic anhydrase RUBP-carboxylase	(B) (D)	•		
38.	The am termed	-	temp	erature of 1 kg of water through 1°C is		
	(A) (C)	Kilocalorie Joule	(B) (D)	Calorie Calorie / °C		
39.	-	ein is known to form a tetrame ues could be suitably used to auth		a specific pH. One of the following te the tetrameric nature:		
	(A) (B) (C) (D)	SDS-polyacrylamide gel electron Cation-exchange chromatograph Anion-exchange chromatography Gel filtration chromatography	y	sis (SDS-PAGE)		
40.	The neu	uron that releases acetylcholine is				
	(A) (C)	Cholinergic Diuretic	(B) (D)	Adrenergic Ionophoric		



41.	Thiami	ne deficiency in human beings leads to a condition known as			
	(A) (C)	Pellagra Beri-beri	(B) (D)	Scurvy White muscle disease	
42.	The C v	value denotes the total amount of l	DNA	in a	
	(A) (C)	aneuploid haploid		diploid polyploid	
43.		conversion of glucose to fructoses is used in the industry?	e, wh	ich one of the following immobilized	
	(A) (C)	α-amylase Glucoamylase	(B) (D)	Lactase Glucose isomerase	
44.	Somation best for		n plan	t tissue culture methodology described	
	(B) (C)	formation of both shoot and root formation of zygotic embryos formation of axillary buds formation of tertiary roots	meris	stem	
45.	All the	cells that participate in immune re	espons	ses originate from a population of	
	(A) (C)	Neutrophils Macrophages	(B) (D)	Stem cells Lymphocytes	
46.	Parthenogenetic embryos in plants are those which are formed by				
	` '	unfertilized eggs sporophytic cells	` /	fertilized eggs male gametophytes	
47.		one of the following is the phytolin plant tissue culture?	normo	ne used for growth of cells, tissues and	
	(A) (C)	•	(B) (D)	Cytokinin Cyclic AMP	
48.	To proc	luce plants that are homozygous f	or all	traits, the best choice is	
	(A) (C)	protoplast culture anther and pollen culture	(B) (D)	cell suspension culture apical meristem culture	
49.	DAHP	synthetase catalyses the condensa	tion o	f	
	(A) (C)	erythrose-4-phosphate Both (A) or (B)	(B) (D)	phosphoenol pyruvate phenylalanine	



50.	Most of the energy in aerobic respiration of glucose is captured by			
	` ′	substrate level phosphorylation electron transport of electrons fro long-chain fatty acid oxidation the enzyme forming-hydrogen ly		ADH
51.	Dolicho	ple phosphate is		
	(A) (B) (C) (D)	complex lipid involved in docki the anchor, on which sugars asso a chaperone used in protein fold a product of phospholipase C ac	emble ling	-
52.		a chemical reaction is positive al reaction will	in v	alue and K_{eq} is less than 1, then the
	(A) (B) (C) (D)	proceed in reverse direction proceed in forward direction not take place in any of the direction None of the above	tion	
53.		cetate is the sole source of carbo is called	n for	some microorganisms, the cycle which
		pentose phosphate pathway glyoxylate pathway	(B) (D)	glycolytic pathway oxaloacetate pathway
54.	Mendal	emasculated garden pea plant. Er	nascu	lation is the
	(A) (B) (C) (D)	removal of flower buds removal of anthers before dehisc removal of carpals before dehisc removal of mature plants		
55.	Crossin	g over in diploid organism in resp	onsib	le for
	(A) (C)	dominance of games recombination of linked genes	(B) (D)	segregation of alleles linkage between genes
56.	The inti	roduction of remedial gene to bone	e mar	row cells comes under
	(A) (C)	germ line therapy Both (A) or (B)	(B) (D)	somatic cell therapy corrective gene therapy
57.	Patau's	syndrome occurs due to		
	(A) (C)	trisomy of 13 th chromosome trisomy of 21 st chromosome	(B) (D)	trisomy of 18 th chromosome trisomy of 22 nd chromosome



58.	Identify a Mandelian disorder from the following							
	(A) (C)	Down's syndrome Turners syndrome	(B) (D)	Klinefelter's syndrome Polyketronuria				
59.	. ,	rma pigmentosum is a disease due	` /	Totykenomuna				
39.	Actouc	ima piginentosum is a disease due	: 10					
	(A)	production of guanine –guanine	dimm	ers in the DNA				
	(B)	*						
		auto immunity						
	(D)	defective melanin metabolism						
60.	A gene	showing co- dominance						
	(A)	(A) has one allele dominant to the other						
	(B)	has both alleles independently ex	xpress	ed in the heterozygote				
	(C)	has alleles tightly linked on the same chromosome						
	(D)	has alleles expressed at the same time in development						
61.	Natural	humoral immune response agains	st a pa	thogen leads to the production of				
	(A)	polyclonal antibodies	(B)	monoclonal antibodies				
	(C)	macrophages	(D)	None of the above				
62.	HGPRT	mutant cells are raised by induci	ng mı	utations using				
	(A)	5-bromouracil	(B)	8-azaguanine				
	(C)	Cochicine	(D)	6-methyl isocyanate				
63.	Injectio	n of anti-venom against snake bit	e is an	example of				
	(A)	active immunity						
	(B)	passive immunity						
	(C)	non-specific immunity						
	(D)	phagocytic immunity						
64.	Alterna	te pathway of complement system	is ac	tivated by				
	(A)	antibody-antigen complexes						
	(B)	antigen						
	(C)	microorganisms or its toxins						
	(D)	antigens bound to MHC						
65.	Which	of the following is not coded by M	мнс	genes?				

(A) Glycoproteins
(B) Antigen presenting proteins
(C) Complements of complement pathway
(D) Immunoglobulins



66.	wnich	which of the following is a combined vaccine?				
		Hepatitis B vaccine Var vaccine	` ′	Hib vaccine DPT vaccine		
67.	Activat	ion of B cell receptor by the bine	ding of	an epitope result in the formation of		
	(A) (B) (C) (D)	memory cells and T cytotoxic plasma cells for antibody presponse	cells producti	on and memory cells for primary		
68.	Cyclosj acts by		drug gi	ven to avoid transplant rejection which		
	(B)	inhibition of T cells inhibition of B cells inhibition of immune system inhibition of complement system	em			
69.	Which	of the following is the central m	olecule	in complement pathway?		
	(A) (C)	C1 C3b	(B) (D)	C2 C.5		
70.	Compared to the secondary antibody response, the primary response					
	(A) (B) (C) (D)			nity for antigen		
71.	A 30 year old women has non bloody diarrhea for the past 14 hours. Which one of the following organisms is least likely to cause this illness?					
	(A) (C)	Streptococcus pyogens Shigella dysenteriae	(B) (D)	Clostridium difficile Salmonella enteritidis		
72.	Which	of the following disease is best of	diagnose	ed by serologic means?		
	(A) (C)	Pulmonary tuberculosis Actinomycosis	(B) (D)	Gonorrhea Q fever		
73.	Each of	f the following agent is a recogn	ized cau	ise of diarrhea EXCEPT		
	(A) (C)	Clostridium perfringens Enterococcus faecalis	(B) (D)	Vibrio cholerae Escheichia coli		



74. Which type of antibody is most effective in activating complement?			tivating complement?	
		IgG1 IgG3	(B) (D)	IgG2 IgM
75.	Which	of the following does not play a re	ole in a	antigen presentation?
	` /	MHC class I molecules MHC class III molecules	` /	MHC class II molecules None of the above
76.		ronic carrier of hepatitis B virus (infectivity?	HBV)), which positive test is most indicative
	(B) (C)	Hepatitis B surface antigen (Hbs. Hepatitis B core antigen (HbcAg Hepatitis B e antigen (HbeAg) AntiHSBsAg		
77.	All of the	he following picornaviruses are re	sistan	t to the acidity of the stomach except
		Coxsackie virus A Echo virus		Coxsackie virus B Rhinovirus
78.	The nur	mber of double bonds in Arachido	nic ac	id is
	(A) (C)		(B) (D)	
79.	The rete	ention signal of proteins of endopl	asmic	reticulum consists of amino acids
	(C)	Gly-Asp-Glu-Leu at the N – term Lys-Asp-Glu-Leu at the N termin Gly-Asp-Glu-Leu at the C-termin Lys-Asp-Glu-Leu at the C-termin	nus nus	
80.	Vitamir	n E prevents		
	(A) (B) (C) (D)	formation of vitamin D in skin secretion of superfluous enzymes keratinisation of epidermal cells absorption of harmful enzymes	S	
81.	Some o		ted in	converting fats into carbohydrates are
	(A) (C)	liposomes glyoxysomes	(B) (D)	golgi bodies microsomes



Irreversible inhibitors often form covalent bonds with

82.

	(A) (B) (C) (D)	tryptophane and phenylalanine residues at or near the active site positively charged residues at or near the active site			
83.	A 1.0 M solution of a compound with 2 ionizable groups(pka's = 6.2 and 9.5 ; 100 ml total) has a pH of 6.8 . If a biochemist adds 60 ml of 1.0 M HCl to this solution, the solution will change to pH				
	` /	5.60 9.13	(B) (D)	8.90 9.32	
84.	During	muscle contraction, hydrolysis of	ATP	results in a change in the	
	(C)	conformation actin conformation of myosin structure of the myofibrils structure of the sarcoplasmic reti-	culun	1	
85.	Layer o	f atmosphere in which ozone layer	r lies	is	
	(A) (C)	exosphere trophosphere	(B) (D)	mesosphere stratosphere	
86.	A high	Biological Oxygen Demand (BOD) ind	icates that	
	(B) (C)	water is pure absence of microbial action low level of microbial pollution high level of microbial pollution			
87.	In whic	h state of matter, the distance betw	veen t	he molecules is minimum?	
	(A) (C)	solid gas		liquid plasma	
88.	Which	of the following is a renewable sou	arce o	of energy?	
	(A) (C)	coal plants	(B) (D)	petroleum uranium	
89.	Acid ra	ins are produced by			
	(A) (B) (C) (D)	excess NO ₂ and SO ₂ from burning excess production of NH ₃ by indexcess release of carbon monoxidexcess formation of CO ₂ by combined to the combined of the combined to	lustry de by	and coal gas incomplete combustion	



90.	The relation between algae and fungi in lichen is					
	(A) (C)	symbiosis commensalism	(B) (D)	parasitism protocooperation		
91.	Germin	ating pollen grain is a rich sour	rce of			
	(A) (C)	cytokinine auxin	(B) (D)	gibberellin rennin		
92.	Sessile	flowers have				
	(A) (C)	no scent no pedicles	(B) (D)	irregular shape no petals		
93.	Tropica	l plants like sugarcane show hi	gh effici	ency of CO ₂ fixation because of		
	` ′	Calvin cycle EMP pathway	(B) (D)	Hatch and Slack cycle TCA cycle		
94.	Chlorophyll 'e' is generally present in					
	(A) (C)	thallophytes mycophytes	(B) (D)	rhodophytes xanthophytes		
95.	In cyclic photophosphorylation which one of the following is formed?					
	(A) (C)	NADP and ATP NADH ₂ and O ₂	(B) (D)	\ensuremath{ATP} \ensuremath{NADPH}_2 , \ensuremath{ATP} and \ensuremath{O}_2		
96.	Which of the following is the most suitable for extraction in a system having very low density difference?					
		Centrifugal extractor Mixed-settler extractor	(B) (D)	Pulsed extractor Packed extraction tower		
97.	In a solution containing 0.30kg mole of solute and 600 kg of solvent, the molality is					
	(A) (C)	1.0 0.60	(B) (D)	0.50 2.0		
98.	Drying	Drying operation under vacuum is carried out to				
	 (A) dry those materials which have very high unbound moisture content (B) reduce drying temperature (C) increase drying temperature (D) dry materials having high bound moisture content 					



99.	To incr	rease the absorption factor, (where	e, G=g	as flow rate; S= solvent flow rate)		
	(A) (C)	increase both 'G' and 'S' increase'G' and decrease'S'	(B) (D)			
100.	The mouth part of honey bee used to mould wax and adhere pollen is					
	(A) (C)	ligula labellum	(B) (D)	labium labrum		
101.	The larger poison claws of the centipede are					
	(A) (C)	mandibles maxillae	(B) (D)	maxillepeds Telson		
102.	Levels	of which of the following hormor	nes are	increased in post-menopausal women?		
	(A) (C)	Estrogen Progesterone	(B) (D)	FSH Cortisone		
103.	The str	ongest ligament in the body is				
	(A) (C)	inguinal ligament ligamentum flavum	(B) (D)	lacunar ligament iliofemoral ligament		
104.	04. Receptors of pressure present in deep layers of skin are					
	(A) (C)	Corpulscles of ruffini Krause's end bulb		(B) Meissner's corpuscles(D) Pacinian corpuscles		
105.	Clinica	l fever in malaria is due to				
	(A) (C)	erythrocyte gametogony pre-erythrocytic schizogony	(B) (D)			
106.	Myxoe	dema in adults is caused due to				
	(A) (C)	hyperthyroidism over production of PTH	(B) (D)	deficiency of PTH deficiency of thyroid hormone		
107.	Oxytox	in stimulates the contraction of				
	(A) (C)	lung heart	(B) (D)	ovary uterus		
108. Smooth endoplasmic reticulam is the site of						
	(A) (C)	protein synthesis	(B)	carbohydrate synthesis		



109.	Experiments demonstrating the importance of the nucleus in controlling the grow the cell were performed in			the nucleus in controlling the growth of	
	(A) (C)	star fish neurospora	(B) (D)		
110.	Pectin is stained using				
	` ′	Sudan III Ruthenium red	(B) (D)		
111.	Which of the following organelle is involved in cell wall synthesis?				
	` ′	Mitochondria Golgi apparatus	(B) (D)	1	
112.	Which aspect of mitosis is affected by colchicine in inducing polyploidy?				
		DNA duplication Cell plate formation	(B) (D)	Spindle formation Chromosome doubling	
113.	During cell division, sometimes there will be failure of separation of siste chromatids. This event is called				
	(A) (C)	interference fusion	(B) (D)		
114.	In the cell cycle, DNA synthesis takes place during				
	(A) (C)	G1 phase S phase	(B) (D)	1	
115.	During which stage of prophase I, the crossing over takes place?				
		Pachytene Zygotene	(B) (D)	Leptotene Diplotene	
116.	What is the most common cause of aseptic meningitis of viral etiology?				
	(A) (C)	Enteroviruses Arboviruses	(B) (D)	*	
117.	Viruses	that can remain latent (usually in	neuro	ons) for many years are most likely	
	(A) (C)	Togoviruses Enteroviruses	(B) (D)	*	



118.	Enteroviruses differ from rhinoviruses mainly in their				
	(A) (B) (C) (D)	capsid shape	ons		
119.	A complex mixture of brown amorphous and colloidal substaces synthesized various soil organisms is referred to as			nd colloidal substaces synthesized by	
		compost FYM	(B) (D)	humus peat super compost	
120.	A soil, which has pH more than 8.5, ESP more than 15 and EC less than 4 mmhos at 25 C, is called			e than 15 and EC less than 4 mmhos/cm	
	(A) (C)	saline soil saline alkaline soil	(B) (D)		
121.	A surfa	ice horizon, which has very high	organio	e matter is	
	(A) (C)	hisitic epipedon umbric epipedon	(B) (D)	ochric epipedon None of the above	
122.	. Absorption of ions in plants occurring with the aid of metabolic energy is termed				
	(A) (C)	passive absorption metabolic absorption		active absorption mass flow absorption	
123.	Acid so	oils can be reclaimed by			
		CaCO ₃ CaSO ₄ .2H ₂ O	` /	H ₂ SO ₄ HNO ₃	
124.	Which of the following fungus is a nematophagous fungi?				
	(A) (C)		(B) (D)	Fusarium sp. Alternaria sp.	
125.	Treatment of municipal water supplies is based upon				
	(A) (B) (C) (D)	coagulation, filtration, chlorination, filtration, coadulat filtration, coagulation, chlorination, coagulation, chlorination, filteration, chlorination, filteration, chlorination, filteration, chlorination, filteration, chlorination, filteration, chlorination, filteration, chlorination, chlorina	tion tion		



126.	6. The death of a river by environmental pollutants ultimately results from			ts ultimately results from		
	(B)	the over production of algae the over abundance of toxic pro- the depletion of oxygen the build up of sediment on the		ottom		
127.	Which	nich of the following acid will have higher bacteriostatic effect at a given pH?				
	\ /	acetic acid citric acid	(B) (D)			
128.	Which of the following is least likely to have a rigid cell wall?					
	(A) (C)	Bacterium Fungus	(B) (D)			
129.	Which of the following test indicates the susceptibility to Streptococcal pyogenic exotoxin?					
	(A) (C)	Schick test ASO test	(B) (D)			
130.	All are genome sequencing strategies, except					
	(B) (C)	Edman degradation method short gun library whole genome short gun sequen directed gene sequencing	icing			
131.	Which of the following is not a gene expression data base?					
	(A) (C)	Gene Bank Seed genes	(B) (D)	Flyview Body map		
132.	The term genomics was coined by					
	(A) (C)	Thomas Cech Thomas Roder	(B) (D)	T.H. Morgan Craig Venter		
133.	DNA se	equencing followed by genome an	nnotati	on are steps of		
	(A) (C)	Comparative genomics Functional genomics	(B) (D)	Structural genomics Transcriptomics		



134.	Milk is a colloidal system in which				
		water is dispersed in fat fat is dispersed in water fat and water are dispersed in each fat is dissolved	ch oth	er	
135.	Which	hich of the following alkali metals has highest specific heat?			
	` /	Caesium Potassium	(B) (D)	Rubidium Lithium	
136.	66. The genus Candida reproduce by				
		arthrospore formation sexual spores	(B) (D)	blastospore formation ascospore formation	
137.	37. The primary pathogenic change in malaria is				
	(B) (C)	destruction of erythrocytes destruction of lymphocytes anoxemic impairment of tissues venous congestion			
138.	Food po	pisoning caused by S. aureus is du	e to th	ne production of	
		hemolysin endotoxin	(B) (D)	enterotoxin leukocidin	
139.	Pneumo	ococcal capsules tend to be largest	t		
		during lag phase during stationary phase	(B) (D)	during exponential phase after death phase	
140.	Campy	lobacter			
	 (A) are sensitive to low pH (B) can cause enteritis in humans (C) exhibit a characteristic darting motion in wet mounts (D) are very difficult to isolate from cases of enteritis 				
141.	Which	is the technique suited for the sepa	aratio	n of large DNA fragments?	
	(A) (C)	AGE PFGC	(B) (D)	PAGE SDS-PAGE	
142.	Aminol	penzyloxymethyl filter paper is co	mmor	nly used for transfer in	
	(A) (C)	Western blotting Northern blotting	(B) (D)	Southern blotting Dot blotting	



143.	Which of the following is best suited method for production of virus free plants?				
	(A) (C)	Embryo culture Ovule culture	. ,	Meristem culture Anther culture	
144.	Expression vectors differ from a cloning vector in having				
	(A) (C)	an origin of replication unique restriction sites		suitable marker genes control elements	
145.	For gly	coproteins, most commonly used	probe	is	
	(A) (C)	antibody antogems	(B) (D)	lectin interferons	
146.	Which of the following detergent is commonly used to release integral proteins fro its membranes?				
	(A) (C)	Urea Triton X 1000		Dimethyl sulphoxide Cyanogens bromide	
147.	The blastocoele becomes the				
	` ′	amniotic cavity primary yolk sac		extra embryonic coelom chorionic cavity	
148.	Which of the following structures is believed to be a primary organizer or induced during organogenesis?				
	(A) (C)		(B) (D)	notochord lens placode	
149.	When the amount of amniotic fluid exceeds two liters, the condition is called				
	(A) (C)	oligohydramnios amniotitis	(B) (D)	polyhydramnies or hydramnies hydrogravida	
150.	The loa	ding of phloem during translocati	on me	eans	
	(A) (B) (C) (D)	elongation of phloem cells separation of phloem parenchym strengthening of phloem fibres pouring of sugars in phloem	ıa		

