LIFE SCIENCE

(Final)

1.		chia coli fully labelled with ¹⁵ N of DNA molecule of the first gene		owed to grow in ¹⁴ N medium. The two n bacteria have
	(A) (B) (C) (D)	different density and do not rese different density but resemble pa same density and resemble parer same density but do not resemble	rent I nt DN	DNA A
2.	Codon	of mRNA and anticodon of tRNA	is ma	de-up of
	(B) (C)	a set of three out of U, A, C and a set of three and two nucleotide a set of two nitrogen bases three and one nitrogen bases, res	s, resp	pectively
3.	Double	stranded DNA virus with 20,000	base p	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		
	(C)	endoplasmic reticulum (ER) and ribosomes and chloroplasts ribosomes and mitochondria mitochondria and chloroplasts	ribos	omes
5.	In split	genes, the coding sequences are c	alled	
	(A) (C)	Exons Cistrons	(B) (D)	Introns Operons
6.	Nuclear	DNA sends information for cyto	plasm	ic protein synthesis through
	(A) (C)	tRNA rRNA	(B) (D)	mRNA miRNA
7.	Which	is not always true for DNA?		
	` /	A + G = C + T $A = T$	(B)	A + T = G + C $G = C$

8.	The nu AaBbC		etes	produced from a plant with genotype
	(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	ent on	different chromosomes or were
	(B)	2		• •
	(C) (D)	he did not have a high power mi he selected only pure types	crosco	ope
10.		eteria grown in the medium conta tration in the	aining	S ³⁵ as lone source of sulphur show its
	(A)	DNA	(B)	Protein
	(C)	RNA	(D)	Glycerol
11.	Haploid	ds are preferred over diploids for r	nutati	on studies because in haploids
	(A)	recessive mutations express imm		
	(B)		nediat	ely
		mutations are readily induced tissue culture is easy		
12.	The pl	·	segme	nts between paternal and maternal
	(A)	linkage	(B)	recombination
		crossing over	(D)	segregation
13.	Mutatio	on in which one base is replaced b	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.	Isoelec	tric 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)	number of amino acids		wles
	(D)	coagulation capacity of protein	motec	eules

16.	The use	of colchicine is involved in the p	roduc	ction of
	(A) (C)	somaclonal variation hybrids	(B) (D)	haploids polyploids
17.		ion of secondary metabolites is the employment of	(new	term being: specialized metabolites)
	(A) (C)	protoplast cultures auxillary bud cultures	(B) (D)	1
18.	What ro	ole do opines play in crown gall di	isease	?
	(A) (B) (C) (D)	transfer of T-DNA to plant cell	nefac	*
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 pla	nts. What would be the ploidy of the
		Haploid Diploid	(B) (D)	Both haploid and diploid Polyploid
21.	Hormon	ne pair required for a callus to diff	erent	iate is
		Auxin and cytokinen Ethylene and gibberellin	(B) (D)	Auxin and gibberellin Cytokinin and gibberellin
22.	Commo	only used reporter gene in plant ex	press	ion vector is
	(A) (B) (C) (D)	Ti plasmid gene of Agrobacterius GUS gene β - Lactamase gene α - anylase gene	m tun	nifaciens
23.	Cybrids	are produced by		
	(A) (B) (C) (D)	fusion of two different nuclei from fusion of two same type nuclei from nucleus of one species but cytop fusion of two chloroplasts from the fusion of two chloroplasts from t	rom s lasm	ame species from both the parent species

24.	The phy	ytohormone producing apical dom	ninanc	e is
	(A) (C)	Auxin Ethylene	(B) (D)	Gibberellin Cytokinin
25.	Which	of the following phytohormone is	conne	ected with cell division?
	(A) (C)	Kinetin Gibberellic acid (GA ₃)	` /	2, 4 - D IAA
26.	Why pl	ant cells and tissue need external	carboi	n source in the culture medium?
	(C)		ility ability	
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	5?
	(A) (C)	Linoleic and linolenic acid Oleic acid	\ /	Stearic acid Palmitic acid
29.	The mo	est important part of cell-cycle wh	ich is	not observed under light microscope is
	(A) (C)	Interphase Metaphase	(B) (D)	Anaphase Telophase
30.	How many primary spermatocytes will form 400 spermatozoa?			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 a	intibiotics act as ionophores, which	h mea	ns that they
	(A) (B) (C) (D)	inhibit only translation increase cell membrane permeat	oility t	o specific ions
34.	Which crystals		s was	first isolated and purified in the form of
	(A) (C)	Urease Amylase	(B) (D)	Pepsin Ribonuclease
35.	The rel	ease of adenyl cyclase from the ce	ell me	mbrane converts
	(A)	ATP into ADP	(B)	ADP into ATP
	\ /	cAMP into ATP	\ /	ATP into cAMP
36.	The enz	zyme used to dissolve blood clot i	n corc	onary artery is
	(A)	Thrombokinase	(B)	Renin
	(C)	Streptokinase	(D)	Tyrosinase
37.	The platime is	ant enzyme that acts both as carbo	oxylas	e at one time and oxygenase at another
	(A)	carbonic anhydrase	(B)	PEP-carboxylase
	(C)	RUBP-carboxylase	(D)	Peptidase
38.	The am	-	temp	erature of 1 kg of water through 1°C is
	(A)	Kilocalorie	(B)	Calorie
	(C)	Joule	(D)	Calorie / °C
39.		ein is known to form a tetram ues could be suitably used to auth		a specific pH. One of the following te the tetrameric nature:
	•	·		
	(A) (B)	SDS-polyacrylamide gel electro Cation-exchange chromatograph		sis (SDS-PAGE)
	(C)		-	
	(D)	Gel filtration chromatography		
40.	The net	uron that releases acetylcholine is		
	(A)	Cholinergic	(B)	Adrenergic
	(C)	Diuretic	(D)	Ionophoric

41.	Thiamine deficiency in human beings leads to a condition known as			a condition known as
		Pellagra Beri-beri	(B) (D)	•
42.	The C v	value denotes the total amount of I	DNA :	in a
		aneuploid haploid	(B) (D)	diploid polyploid
43.		conversion of glucose to fructos is used in the industry?	e, wh	ich one of the following immobilized
		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
	` /	Neutrophils Macrophages	(B) (D)	Stem cells Lymphocytes
46.	Parthen	ogenetic embryos in plants are the	ose wl	nich are formed by
	` /	unfertilized eggs sporophytic cells	. /	fertilized eggs male gametophytes
47.		one of the following is the phytolin plant tissue culture?	ormo	ne used for growth of cells, tissues and
	\ /	Cysteine Cytidylate	(B) (D)	Cytokinin Cyclic AMP
48.	To proc	luce plants that are homozygous for	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
	 (A) substrate level phosphorylation (B) electron transport of electrons from NADH (C) long-chain fatty acid oxidation (D) the enzyme forming-hydrogen lyase
51.	Polichole phosphate is
	 (A) complex lipid involved in docking vesicles with the plasma membrane (B) the anchor, on which sugars assemble before transfer to proteins (C) a chaperone used in protein folding (D) a product of phospholipase C activation
52.	f G of a chemical reaction is positive in value and K_{eq} is less than 1, then the chemical reaction will
	 (A) proceed in reverse direction (B) proceed in forward direction (C) not take place in any of the direction (D) None of the above
53.	When acetate is the sole source of carbon for some microorganisms, the cycle which s used is called
	 (A) pentose phosphate pathway (B) glycolytic pathway (C) glyoxylate pathway (D) oxaloacetate pathway
54.	Mendal emasculated garden pea plant. Emasculation is the
	 (A) removal of flower buds (B) removal of anthers before dehiscence (C) removal of carpals before dehiscence (D) removal of mature plants
55.	Crossing over in diploid organism in responsible for
	 (A) dominance of games (B) segregation of alleles (C) recombination of linked genes (D) linkage between genes
56.	The introduction of remedial gene to bone marrow cells comes under
	(A) germ line therapy (C) Both (A) or (B) (B) somatic cell therapy (D) corrective gene therapy
57.	Patau's syndrome occurs due to
	(A) trisomy of 13 th chromosome (B) trisomy of 18 th chromosome (C) trisomy of 21 st chromosome (D) trisomy of 22 nd chromosome

58.	Identify a Mandelian disorder from the following			
	(A) (C)	Down's syndrome Turners syndrome		Klinefelter's syndrome Polyketronuria
59.	Xerode	rma pigmentosum is a disease due	e to	
	(A) (B) (C) (D)	production of guanine –guanine defective DNA repair auto immunity defective melanin metabolism	dimm	ners in the DNA
60.	A gene	showing co- dominance		
	(A) (B) (C) (D)	has one allele dominant to the of has both alleles independently en has alleles tightly linked on the s has alleles expressed at the same	xpress same o	chromosome
61.	Natural	humoral immune response against	st a pa	thogen leads to the production of
	(A) (C)	polyclonal antibodies macrophages	(B) (D)	
62.	HGPR	Γ mutant cells are raised by induci	ng mu	utations using
	(A) (C)	5-bromouracil Cochicine	(B) (D)	E
63.	Injection	on of anti-venom against snake bit	e is ar	example of
	(A) (B) (C) (D)	active immunity passive immunity non-specific immunity phagocytic immunity		
64.	Alterna	te pathway of complement system	is ac	tivated by
	(A) (B) (C) (D)	antibody-antigen complexes antigen microorganisms or its toxins antigens bound to MHC		
65.	Which	of the following is not coded by I	МНС	genes?
	(A) (B) (C) (D)	Glycoproteins Antigen presenting proteins Complements of complement pa Immunoglobulins	thway	/

66.	Which	of the following is a combined va	ccine	
	, ,	Hepatitis B vaccine Var vaccine	` /	Hib vaccine DPT vaccine
67.	Activat	ion of B cell receptor by the bind	ing of	an epitope result in the formation of
	(A) (B) (C)	plasma cells and T cytotoxic cel memory cells and T cytotoxic co plasma cells for antibody pr response	ells	on and memory cells for primary
	(D)	plasma cells for antibody pro- response	ductio	on and memory cells for secondary
68.	Cyclospacts by	porine is an immunosuppressive of	drug g	iven to avoid transplant rejection which
	` /	inhibition of T cells		
	(B)			
		inhibition of immune system	_	
	(D)	inhibition of complement system	11	
69.	Which	of the following is the central mo	lecule	in complement pathway?
	(A)	C1	(B)	C2
		C3b		C.5
	, ,		, ,	
70.	Compa	red to the secondary antibody resp	ponse,	the primary response
	(A)	attains a higher IgG titer		
	(A) (B)	has a longer lag phase		
	(C)	persists for a longer plateau peri	od	
	(D)	produces antibodies with a high		nity for antigen
71.		ear old women has non bloody dia ng organisms is least likely to cau		for the past 14 hours. Which one of the sillness?
	(A)	Streptococcus pyogens	(B)	Clostridium difficile
	(C)	Shigella dysenteriae	(D)	Salmonella enteritidis
	(-)	angena dyseneran	(-)	
72.	Which	of the following disease is best di	agnos	ed by serologic means?
	(A)	Pulmonary tuberculosis	(B)	Gonorrhea
	(C)	Actinomycosis	(D)	Q fever
73.	Each of	the following agent is a recognize	zed cau	use of diarrhea EXCEPT
	(A)	Clostridium perfringens	(B)	Vibrio cholerae
	(A) (C)	Enterococcus faecalis	(D)	Escheichia coli
	(\mathbf{c})	Juccuis	(\mathcal{L})	

74.	Which	type of antibody is most effective	in ac	tivating complement?
		IgG1 IgG3		IgG2 IgM
75.	Which	of the following does not play a ro	le 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 nui	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

82.	Irrevers	Irreversible inhibitors often form covalent bonds with		
	` ′	any amino acid residues at or near tryptophane and phenylalanine re positively charged residues at or ser or Cys residues at or near the	esidue near	es at or near the active site the active site
83.	total) ha			able groups(pka's = 6.2 and 9.5; 100 ml 0 ml of 1.0 M HCl to this solution, the
	(A) (C)	5.60 9.13	(B) (D)	8.90 9.32
84.	During	muscle contraction, hydrolysis of	ATP	results in a change in the
	(B) (C)	conformation actin conformation of myosin structure of the myofibrils structure of the sarcoplasmic reti	culun	n
85.	Layer o	f atmosphere in which ozone laye	r lies	is
		exosphere trophosphere	(B) (D)	mesosphere stratosphere
86.	A high	Biological Oxygen Demand (BOI	D) 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 bety	ween 1	the molecules is minimum?
	(A) (C)			liquid plasma
88.	Which	of the following is a renewable so	urce (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 burn excess production of NH ₃ by indexcess release of carbon monoxi excess formation of CO ₂ by com	dustry de by	and coal gas incomplete combustion

90.	The rela	The relation between algae and fungi in lichen is		
		symbiosis commensalism	` /	parasitism protocooperation
91.	Germin	ating pollen grain is a rich source	of	
		cytokinine auxin	(B) (D)	gibberellin rennin
92.	Sessile	flowers have		
	` /	no scent no pedicles	(B) (D)	e i
93.	Tropica	l plants like sugarcane show high	effici	ency of CO ₂ fixation because of
	` ′	Calvin cycle EMP pathway		Hatch and Slack cycle TCA cycle
94.	Chlorop	phyll 'e' is generally present in		
		thallophytes mycophytes	(B) (D)	rhodophytes xanthophytes
95.	In cycl	ic photophosphorylation which or	ne of t	he following is formed?
	` /	NADP and ATP NADH ₂ and O ₂	(B) (D)	$\begin{array}{c} ATP \\ NADPH_2 \end{array} \ , ATP \ and \ O_2 \end{array}$
96.		of the following is the most suital difference?	ole for	extraction in a system having very low
		Centrifugal extractor Mixed-settler extractor		Pulsed extractor Packed extraction tower
97.	In a sol	ution containing 0.30kg mole of s	olute	and 600 kg of solvent, the molality is
	(A) (C)	1.0 0.60	(B) (D)	0.50 2.0
98.	Drying	operation under vacuum is carrie	d out t	0
	(A) (B) (C) (D)	dry those materials which have reduce drying temperature increase drying temperature dry materials having high bound	•	

99. To increase the absorption factor, (where, G=gas flow rate; S= solvent			as flow rate; S= solvent flow rate)				
	(A) (C)	increase both 'G' and 'S' increase'G' and decrease'S'	(B) (D)	increase'S'and decrease'G' decrease both'G' and 'S'			
100.	The mo	outh part of honey bee used to more	ax and adhere pollen is				
	(A) (C)	ligula labellum	(B) (D)	labium labrum			
101.	The lar	The larger poison claws of the centipede are					
	(A) (C)	mandibles maxillae	(B) (D)	maxillepeds Telson			
102. Levels of which of the following hormones are increased in p			increased in post-menopausal women?				
	(A) (C)	Estrogen Progesterone	(B) (D)	FSH Cortisone			
103. The strongest ligament in the body is							
		inguinal ligament ligamentum flavum	(B) (D)	lacunar ligament iliofemoral ligament			
104. Receptors of pressure present in deep layers of skin are				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					
		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	n endoplasmic reticulam is the site	of				
	(A) (C)	protein synthesis amino acid synthesis	(B) (D)	carbohydrate synthesis lipid synthesis			

109. Experiments demonstrating the importance of the nucleus in controlling the cell were performed in			the nucleus in controlling the growth of				
	` /	star fish neurospora	` /	acetabularia leucocytes			
110.	Pectin i	s stained using					
		Sudan III Ruthenium red	(B) (D)	acetocarmine iodine			
111.	Which of the following organelle is involved in cell wall synthesis?						
	` /	Mitochondria Golgi apparatus	(B) (D)	Chloroplast Lysosome			
112.	Which	Which aspect of mitosis is affected by colchicine in inducing polyploidy?					
		DNA duplication Cell plate formation	(B) (D)	Spindle formation Chromosome doubling			
113.		cell division, sometimes there tids. This event is called	e wil	l be failure of separation of sister			
	` /	interference fusion	(B) (D)	coincidence non-disjunction			
114.	14. In the cell cycle, DNA synthesis takes place during						
	(A) (C)	G1 phase S phase	(B) (D)	G2 phase prophase			
115.	During	which stage of prophase I, the cro	ssing	over takes place?			
	(A) (C)	Pachytene Zygotene	(B) (D)	Leptotene Diplotene			
116.	What is	What is the most common cause of aseptic meningitis of viral etiology?					
	(A) (C)	Enteroviruses Arboviruses	(B) (D)	Herpesviruses Retroviruses			
117.	Viruses that can remain latent (usually in neurons) for many years are most likely						
	(A) (C)	Togoviruses Enteroviruses	(B) (D)	Herpes viruses Retroviruses			

118.	8. Enteroviruses differ from rhinoviruses mainly in their			in their			
	(B) (C)	type of nucleic acid size capsid shape ability to survive acidic condition	ons				
119.		A complex mixture of brown amorphous and colloidal substaces synthesized by various soil organisms is referred to as					
		compost FYM	(B) (D)	humus peat super compost			
120.		which has pH more than 8.5, ES, is called	P more	e than 15 and EC less than 4 mmhos/cm			
	` /	saline soil saline alkaline soil	` /	alkaline soil latterite soil			
121.	A surfa	ce horizon, which has very high	organio	e matter is			
	, ,	hisitic epipedon umbric epipedon		ochric epipedon None of the above			
122.	22. Absorption of ions in plants occurring with the aid of metabolic energy is termed						
	, ,	passive absorption metabolic absorption		active absorption mass flow absorption			
123.	Acid so	ils can be reclaimed by					
	` /	CaCO ₃ CaSO ₄ .2H ₂ O	(B) (D)	H ₂ SO ₄ HNO ₃			
124.	Which	of the following fungus is a nema	atophag	gous fungi?			
	(A) (C)	Beauveria bassiana Arthrobotrys oligospora	(B) (D)	Fusarium sp. Alternaria sp.			
125.	Treatment of municipal water supplies is based upon						
	(A) (B) (C) (D)	coagulation, filtration, chlorinat chlorination, filtration, coadular filtration, coagulation, chlorinat coagulation, chlorination, filter	tion tion				

126.	The death of a river by environmental pollutants ultimately results from					
		· · · · · · · · · · · · · · · · · · ·				
127.	Which	of the following acid will have higher bacteriostatic effect at a given pH?				
	\ /	acetic acid citric acid	(B) (D)	tartaric acid maleic acid		
128.	Which of the following is least likely to have a rigid cell wall?					
	` /	Bacterium Fungus	(B) (D)	Archaean Protozoa		
129.	Which of the following test indicates the susceptibility to Streptococcal pyogen exotoxin?			sceptibility to Streptococcal pyogenic		
	(A) (C)	Schick test ASO test	(B) (D)	Disk test Precipitation test		
130.	All are genome sequencing strategies, except					
	(A) (B) (C) (D)	Edman degradation method short gun library whole genome short gun sequence directed gene sequencing	cing			
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 sequencing followed by genome annotation are steps of			on are steps of		
	(A) (C)	Comparative genomics Functional genomics	(B) (D)	Structural genomics Transcriptomics		

134.	Milk is a colloidal system in which				
	(A) (B) (C) (D)	water is dispersed in fat fat is dispersed in water fat and water are dispersed in ea fat is dissolved	ich oth	er	
135.	Which	th of the following alkali metals has highest specific heat?			
	(A) (C)	Caesium Potassium	(B) (D)		
136.	The ger	The genus Candida reproduce by			
	(A) (C)	arthrospore formation sexual spores	(B) (D)	1	
137.	The primary pathogenic change in malaria is				
	(A) (B) (C) (D)	destruction of lymphocytes anoxemic impairment of tissues			
138.	Food po	pisoning caused by S. aureus is du	ue to th	ne production of	
	(A) (C)	hemolysin endotoxin	(B) (D)		
139.	Pneumo	Pneumococcal capsules tend to be largest			
	(A) (C)	during lag phase during stationary phase	(B) (D)	during exponential phase after death phase	
140.	Campylobacter				
	(A) (B) (C) (D)	(B) can cause enteritis in humans(C) exhibit a characteristic darting motion in wet mounts			
141.	Which is the technique suited for the separation of large DNA fragments?				
	(A) (C)	AGE PFGC	(B) (D)	PAGE SDS-PAGE	
142.	Aminol	penzyloxymethyl filter paper is co	ommor	nly used for transfer in	
	(A) (C)	Western blotting Northern blotting	(B) (D)	Southern blotting Dot blotting	

143.	3. Which of the following is best suited method for production of virus free plant			or 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 glycoproteins, 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				
	(A) (C)	amniotic cavity primary yolk sac		extra embryonic coelom chorionic cavity	
148.	Which of the following structures is believed to be a primary organizer or induduring organogenesis?				
	(A) (C)		` /	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 loading of phloem during translocation means			rans		
	(A) (B) (C) (D)	elongation of phloem cells separation of phloem parenchym strengthening of phloem fibres pouring of sugars in phloem	a		