Question Booklet Alpha Code



Total Number of Questions : 100

Question Booklet SI. No.

Time : 90 Minutes

4

Maximum Marks : 100

INSTRUCTIONS TO CANDIDATES

- 1. The Question Paper will be given in the form of a Question Booklet. There will be four versions of Question Booklets with Question Booklet Alpha Code viz. **A**, **B**, **C** & **D**.
- 2. The Question Booklet Alpha Code will be printed on the top left margin of the facing sheet of the Question Booklet.
- 3. The Question Booklet Alpha Code allotted to you will be noted in your seating position in the Examination Hall.
- 4. If you get a Question Booklet where the alpha code does not match to the allotted alpha code in the seating position, please draw the attention of the Invigilator IMMEDIATELY.
- 5. The Question Booklet Serial Number is printed on the top right margin of the facing sheet. If your Question Booklet is un-numbered, please get it replaced by new Question Booklet with same alpha code.
- 6. The Question Booklet will be sealed at the middle of the right margin. Candidate should not open the Question Booklet, until the indication is given to start answering.
- 7. Immediately after the commencement of the examination, the candidate should check that the Question Booklet supplied to him/her contains all the 100 questions in serial order. The Question Booklet does not have unprinted or torn or missing pages and if so he/she should bring it to the notice of the Invigilator and get it replaced by a complete booklet with same alpha code. This is most important.
- 8. A blank sheet of paper is attached to the Question Booklet. This may be used for rough work.
- 9. Please read carefully all the instructions on the reverse of the Answer Sheet before marking your answers.
- 10. Each question is provided with four choices (A), (B), (C) and (D) having one correct answer. Choose the correct answer and darken the bubble corresponding to the question number using Blue or Black Ball Point Pen in the OMR Answer Sheet.
- 11. Each correct answer carries 1 mark and for each wrong answer 1/3 mark will be deducted. No negative mark for unattended questions.
- 12. No candidate will be allowed to leave the examination hall till the end of the session and without handing over his/her Answer Sheet to the Invigilator. Candidates should ensure that the Invigilator has verified all the entries in the Register Number Coding Sheet and that the Invigilator has affixed his/her signature in the space provided.
- 13. Strict compliance of instructions is essential. Any malpractice or attempt to commit any kind of malpractice in the Examination will result in the disqualification of the candidate.

- 1. Which one of the following statements is not correct ?
 - A) Calmodulin is a multifunctional intermediate calcium-binding messenger protein, found universally in plants, animals and eukaryotic micro-organisms.
 - B) Calmodulin acts as a part of calcium signal transduction pathway by modifying its interactions with various target proteins such as kinases or phosphatases.
 - C) Binding of Ca^{2+} is required for the activation of calmodulin.
 - D) Each molecule of calmodulin contains two binding sites for calcium.
- 2. Find out the measure of central tendency which requires data arrangement in descending or ascending order for its calculation.
 - A) Arithmetic mean B) Mode
 - C) Median D) All of the above
- 3. Which of the following statements are correct about numerical taxonomy ?
 - i. It is a field primarily connected with procedural or operational problems.
 - ii. It includes the drawing of phylogenetic inferences from the data by statistical or other mathematical methods.
 - iii. It is not based on phenetic evidences but is based on phylogenetic probabilities.
 - iv. It is the numerical evaluation of the similarity between groups of organisms and the ordering of these groups into higher-ranking taxa on the basis of those similarities.
 - A) Only i and iv B) Only i and iii
 - C) Only i, ii and iv D) Only i, ii and iii
- 4. Out of the total 64 codons, 61 codons code for 20 amino acids, this suggests
 - A) Overlapping of codons
- B) Ambiguous nature of codons
- C) Degeneracy of codons
- D) Collinearity of genetic code
- 5. Given below are statements pertaining to ANOVA technique. Identify the incorrect statement.
 - A) The essence of ANOVA is that the total amount of variation in a set of data is broken down into two types, that amount which can be attributed to chance and that amount which can be attributed to specific causes.
 - B) In ANOVA model, the different components of variance should follow multiplicative law.
 - C) The purpose of ANOVA technique is to test the homogeneity of several population means.
 - D) ANOVA test helps to determine the significance or randomness of the results of an experiment.

- 6. Zinc-fingers are important in eukaryotic cell metabolism because they are
 - A) Structural motifs in many DNA-binding proteins
 - B) Catalytic site of many metabolic enzymes
 - C) Needed for chromosome organization
 - D) Used in RNA silencing
- 7. The following statements are made on transposons.
 - i. The two most common families of moderately repeated sequences in human DNA the *Alu* and L1 families are DNA transposons.
 - ii. DNA transposons are segments of DNA that move from one place to another via a cut and paste mechanism.
 - iii. Approximately 40 percent of the human genome consists of DNA transposons and more than 3% consists of retrotransposons.
 - iv. Retrotransposons operate by means of a copy-and-paste mechansim that involves an RNA intermediate.

Which one of the following combinations of above statements is correct ?

- A) Only i and iv B) Only ii and iv
- C) Only i and iii D) Only ii and iii
- 8. Which of the following is not the part of DNA polymerase III holoenzyme ?
 - A) SSB proteinsB) β-clamps
 - C) Core polymerases D) γ-clamp loader
- 9. Given below are few statements regarding the controlling of the cell cycle.
 - i. The cell cycle is controlled primarily at two points START and G_1 -M transition.
 - ii. Cdc25 normally plays a key role in the G₂/M transition by removing inhibitory phosphates from Cdk1.
 - iii. Sic1 acts as Cdk inhibitor during G₁.
 - iv. Entry of a cell into M phase is triggered by the activation of MPF.

Which one of the following combinations of above statements is incorrect ?

- A) Only i B) Only ii
- C) Only i and iii D) Only ii and iv

- 10. Which of the following statements is/are not correct about the term species ?
 - i. It may be regarded as morphologically definable units, made up of groups of individuals which are not usually interbreeding and containing one or more gene pools.
 - ii. The biological species concept was advanced by Ernst Mayr.
 - iii. It is a community of cross-fertilizing individuals linked together by bonds of mating and isolated reproductively from other species by barriers to mating.
 - iv. Members of the same species are reproductively compatible, but are reproductively isolated from other species.
 - A) Only i B) Only ii
 - C) Only iii and iv D) Only i and ii
- 11. Enlisted below are different types of sampling methods (Column A) and explanation (Column B), but not in the same order.

Column – A	
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- 1. Stratified sampling p. Res
 - 2. Probability sampling
 - 3. Systematic sampling

Column – B

- p. Researchers select members of the population at a regular interval
- q. Items for the sample are selected deliberately by the researcher
- r. The population is divided into several sub-populations that are individually more homogenous than the total population and then select item from each group to constitute a sample
- s. Every item of the universe has an equal chance of inclusion in the sample

Choose the correct combination.

4. Non-probability sampling

- A) 1-s, 2-r, 3-p, 4-qC) 1-r, 2-p, 3-s, 4-qB) 1-q, 2-p, 3-s, 4-rD) 1-r, 2-s, 3-p, 4-q
- 12. Which of the following is not an example of transmembrane transport between different sub-cellular compartments ?
 - A) Transport from mitochondrial intermembrane space into the mitochondrial matrix
 - B) Transport from cytoplasm into the lumen of endoplasmic reticulum
 - C) Transport from endoplasmic reticulum to Golgi complex
 - D) Transport from stroma into thylakoid space

- 13. Which of the following statements is/are an objective of PPV and FR Act, 2001 ?
 - A) To establish an effective system for the protection of plant varieties, the rights of farmers and plant breeders and to encourage the development of new varieties of plants.
 - B) Facilitate the growth of seed industry in the country which will ensure the availability of high quality seeds and planting material to the farmers.
 - C) To recognize and protect the rights of farmers in respect of their contributions made at any time in conversing, improving and making available plant genetic resources for the development of new plant varieties.
 - D) All of the above
- 14. The design of two oligonucleotide primers is the key to the success of a PCR reaction. Choose the statement which is not correct about the primers.
 - A) The primers have to be complementary to the sequences flanking the target DNA.
 - B) They must be complementary to each other.
 - C) The primers have to be matched in their G + C content.
 - D) They should have similar annealing temperature.
- 15. Column A lists the types of variables and Column B lists the explanation of these variables, but not in the same order. Match both the columns carefully and select the correct option from those listed below them.

	Column – A		Column – B
1.	Dependent variable	p.	Variables that are not related to the purpose of the study, but may affect the outcomes of the research study
2.	Independent variable	q.	Variables which can take on an unlimited number of values between the lowest and highest points of measurement
3.	Continuous variable	r.	The variable, value of which may change due to change in the value of other variables
4.	Extraneous variable	s.	It is the variable that stands alone and is not changed by other factors
A)	1 – q, 2 – p, 3 – s, 4 – r		
B)	1 – q, 2 – s, 3 – r, 4 – p		

C) 1 - s, 2 - r, 3 - q, 4 - pD) 1 - r, 2 - s, 3 - q, 4 - p 16. Given below are set of statistical methods (Column – A) and their applications in biological research (Column – B), but not in the same order.

Column – A	١
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- 1. Regression analysis
- 2. Spearman's coefficient of correlation
- 3. Variance
- 4. Chi-square analysis

Choose the correct combination.

- A) 1 r, 2 s, 3 q, 4 p
- C) 1 − q, 2 − r, 3 − s, 4 − p

- Column B
- p. Calculate the deviation between observed and expected values.
- q. Measure the spread of a distribution
- r. Prediction of value of a dependent variable based on known value of an associated variable
- s. Measure the degree of association between two variables
- B) 1-s, 2-p, 3-r, 4-q
- D) 1 − p, 2 − q, 3 − s, 4 − r
- 17. Following are few statements regarding sandwich ELISA. Find the option with incorrect statement.
 - A) It measures the amount of antigen between two layers of antibodies (i.e., capture and detection antibody).
 - B) The advantage of this method is that the sample doesn't have to be purified before analysis.
 - C) Monoclonal or polyclonal antibodies cannot be used as the capture and detection antibodies in this method.
 - D) The antigen to be measured must contain at least two antigenic sites capable of binding to antibody.
- Given below is a list of analytical techniques (Column A) and their characteristics (Column – B), but not in correct order.

Column – A

- i. SDS-PAGE
- ii. Affinity chromatography
- iii. Mass spectrometry
- iv. X-ray crystallography

Choose the correct combination.

- A) i d, ii a, iii b, iv c
- C) i c, ii d, iii b, iv a

Column – B

- a. Used to determine the three-dimensional molecular structure of proteins and biological macromolecules
- b. Separation of proteins on the basis of their molecular mass
- c. This purification technique takes advantage of the unique structural properties of a protein
- d. An analytical technique that separates ionized particles such as atoms, molecules and clusters by using differences in the mass-to-charge ratio

B) i - c, ii - a, iii - b, iv - d

D) i - b, ii - c, iii - d, iv - a

- 19. Which one of the following statements about miRNAs is not true ?
 - A) miRNAs carry out translational level regulation by inducing the degradation of the target mRNA.
 - B) miRNA are a class of short, non-coding RNA molecule, play a significant role in the regulation of gene expression at the transcriptional level.
 - C) miRNA can repress the synthesis of proteins at some point after the initiation of translation has occurred.
 - D) A typical miRNA is partially complementary to a region in the 3'UTR of the mRNA target.
- 20. Which one of the following statements about phase contrast microscope is correct ?
 - A) The phase contrast microscope is not useful for examining intracellular components of living cells at relatively high resolution.
 - B) Phase contrast microscopy is a technique used for gaining contrast in translucent specimen with staining the specimen.
 - C) The phase contrast microscope converts differences in refractive index of different parts of an object into differences in intensity, which are visible to the eye.
 - D) In negative phase contrast, a light specimen will have a bright halo on a light background.
- 21. Which one of the following microscopy works on the principle of interferometry to gain information about the optical path length of the sample, to see otherwise invisible features ?
 - A) Nomarski microscopy
- B) Fluorescence microscopy
- C) Scanning electron microscopy D) Scanning tunneling microscopy
- 22. The following are the statements about K_m value.
 - i. It is one half of maximum reaction velocity.
 - ii. The values of K_m are measured in terms of molarity.
 - iii. By knowing the K_m value of a particular enzyme-substrate system, one can predict whether the cell needs more enzyme or more substrate to speed up the enzymatic reaction.
 - iv. If an enzyme can catalyze a reaction with two similar substrates in the cell, it will prefer that substrate for which the enzyme has lower K_m value.

Which of the above statements is/are true ?

- A) Only i B) Only ii C) Only iii and iv D) All of the above
- 23. Which of the following is correct Michaelis-Menten equation ?

A)
$$V = \frac{K_m + [S]}{V_{max}[S]}$$

B) $V = \frac{V_{max}[S]}{K_m + [S]}$
C) $V = \frac{V_{max} + [S]}{K_m[S]}$
D) None of the above

- 24. Concentration of which of the following hormones increase in plants during senescence?
 - A) Auxin and gibberellin
 - C) Ethylene and ABA
- B) Cytokinins
- D) Cytokinin and auxin
- 25. Given below are group of inhibitors of oxidative phosphorylation and electron transport chain (Column – A) and their roles (Column – B), in a random order.

Column – A

4. Cyanides

Column – B

- 1. Oligomycins a. Inhibit flow of electrons from cyt. a_3 to O_2 in the last place of electron transport chain 2. Atractylic acid b. Blocking the activity of enzyme ATPase in the inner mitochondrial membrane
- 3. Rotenone c. Blocking ADP-ATP antiport in the inner
 - mitochondrial membrane d. Check the flow of electrons from Fe-S protein in the complex-I to Ubiquinone

Choose the correct combination.

- A) 1 − c, 2 − d, 3 − a, 4 − b
- C) 1 − c, 2 − a, 3 − b, 4 − d

- B) 1 b, 2 c, 3 d, 4 a
- D) $1 d_1 2 a_1 3 b_1 4 c_2$
- 26. How many molecules of NADPH and ATP respectively are required for the fixation of 6CO₂ molecules into one hexose sugar molecule through Calvin cycle ? A) 12 NADPH and 12 ATP
 - B) 12 NADPH and 18 ATP
 - C) 18 NADPH and 12 ATP
- D) 18 NADPH and 18 ATP
- 27. Following statements are related to the β -oxidation of fatty acids.
 - 1. β -hydroxyacyl CoA is dehydrogenated and form β -keto fatty acyl CoA.
 - 2. Thioclastic cleavage of β -keto fatty acyl-CoA into fatty acyl-CoA and acetyl CoA.
 - The activation of fatty acids in the presence of ATP and enzyme thickinase and produce fatty acyl-CoA.
 - 4. Two hydrogen atoms are removed between α and β -C atoms and a trans α , β -unsaturated fatty acyl-CoA is formed in the presence of acyl-CoA dehydrogenase.
 - 5. The addition of a water molecule across the double bond to form corresponding β -hydroxyacyl-CoA in the presence of enoyl hydrase.

Which one of the following combinations of the above statements is in the correct sequential order?

B) 3, 2, 1, 4, 5 C) 3, 4, 5, 1, 2 D) 2, 3, 5, 4, 1 A) 2, 3, 1, 4, 5

- 28. Which of the following statements is incorrect ?
 - A) Vernalized plant can be devernalized by treatment with high temperature.
 - B) Vernalization shortens the vegetative period of the plants.
 - C) Vernalization increases the cold resistance of the plants.
 - D) Vernalization is an anaerobic process.

29.	29. Which of the following mineral ions are required for the photolysis of water in photosynthesis?					
	 A) Mn⁺⁺ and Cl⁻ ions C) Mg⁺⁺ and K⁺ ions 	3	B) ł D) 2	K ⁺ and Cl [–] ions Zn ⁺⁺ and Cl [–] ions		
30.	Fluorescence In Situ A) mRNA C) Specific DNA	Hybridization (FISH)	techn B) (D) F	niques are used for Glycoprotein Protein sequences	r the	e detection of
31.	Which among the foll A) NCBI	owing is not a primar B) EMBL	y nuc C) [leotide database ? DDBJ	D)	PIR
32.	Artificial competence A) Mandel and Higa C) Douglas Banghan	in cells using calcium n	n chlo B) C D) N	ride method was c John Sanford Newmann and Pot	lisco ter	overed by
33.	DOT blot is a techniq A) DNA C) Proteins	ue used to detect	B) F D) F	RNA Recombinants		
34.	The transfer of gene A) Liposome transfer C) Electroporation	to target plant cell usi	ng a B) N D) (very thin needle is Microinjection Gene gun	cal	led
35.	Which Committee has on genetically modifie A) ICMR	s been constituted by ed research product ? B) GEAC	the G	overnment of India	a to D)	keep a check IARI
36.	Homozygosity and he A) Test cross	eterozygosity of an ind B) Back cross	ر dividu C) S	ual can be determiu Self-fertilization	ned D)	by Alleles
37.	Which among the foll A) Cystic fibrosis C) Sickle cell anemia	owing is not an autos ı	omal B) H D) A	recessive genetic Haemophilia Albinism	diso	order ?
38.	Which amino acid ha A) Gly	s the triplet codon GL B) Val)U ? C) <i>I</i>	Ala	D)	Asp
39.	Which of the following chromosome ? A) G1-phase	g phase is involved in B) S-phase	the c	conversion of chro M-phase	mati D)	in to G2-phase
40.	The phage transduces	s those bacterial gene	s onlv	which are adjoinin	a to	the prophage
	is observed in A) Lambda Phage	B) P1 Phage	C) F	Phage P22	D)	All of the above

41.	Which of the following A) Curcumin	g is a dietary compou B) Genistein	nd ł C)	naving epigenetic ef Isothiocyanates	fect D)	? All of the above
42.	Who coined the term A) Sutton	"Chromosome" ? B) Hoffmeister	C)	Waldeyer	D)	Boveri
43.	Which one among the principle ?	e following factors doe	es n	ot affect the Hardy	We	inberg
	A) Mutation	B) Genetic drift	C)	Gene migration	D)	Nutrition
44.	Which of the followingA) Selective mediaC) Living media	g medium is compose	ed o B) D)	f chemically definec Synthetic media Natural media	l co	mpounds ?
45.	Which of the following the bacterial cell wall	component is an unor ?	gan	ised extracellular lay	/ert	hat surrounds
	A) Slime layer	B) Capsule	C)	Peptidoglycans	D)	LPS layer
46.	The primary agenda ofA) Control of GreenhC) Soil Conservation	of the Kyoto Protocol ouse Gases	is B) D)	Save Energy Save Water		
47.	Which method of ster A) Autoclaving	ilization is called fract B) Boiling	tion C)	al sterilization ? Tyndallization	D)	Pasteurization
48.	Which among the foll A) Corona viruses	owing group of viruse B) Rhino viruses	es ca C)	auses SARS diseas Influenza viruses	e ? D)	RSV
49.	Which is an exampleA) Carbon monoxideC) Sulfur oxides	of secondary air pollu	utan B) D)	t ? Acid rain Lead		
50.	Vineyard sprayer's lu A) Arsenic	ng disease is due to o B) Lead	chrc C)	nic poisoning of Copper	D)	Mercury
51.	Examples of Echinod A) Sea urchins	erm are B) Sand dollars	C)	Sea biscuits	D)	All of the above
52.	The maximum volume	e of air contained in tl	ne li	ung by a full forced	inha	alation is
	A) Ventilation rateC) Vital capacity		B) D)	Tidal volume Total lung capacity	,	
53.	Only right aortic arche	es are present in				
	A) Birds	B) Mammals	C)	Reptiles	D)	Fishes
Α		-11	-			

54.	Which of the following statements about Placozoa is/are correct ?A) It is a minor phylum of minute flat organisms.B) These are marine invertebrates.C) These are simplest metazoans.D) All of the above						
55.	 Kidneys in the human body extend from A) 12th thoracic vertebrae to 3rd lumbar vertebrae B) 10th thoracic vertebrae to 5th lumbar vertebrae C) 8th thoracic vertebrae to 12th lumbar vertebrae D) 5th thoracic vertebrae to 3rd lumbar vertebrae 						
56.	Chromophil cells in an A) Amylase	nnelids are concerned B) Protease	l wi C)	th the secretion of Lipase	D)	Cocoon	
57.	Antioxidants fight aga A) Viruses	inst B) Fungus	C)	Free radicals	D)	Bacteria	
58.	Which of the following A) Cystine	is the uncharged de B) Tyrosine	riva C)	tive of an acidic am Serine	ino D)	acid ? Glutamine	
59.	 Black stinging catfish freshwater fish of Ker its scientific name is A) Heteropneustes for B) Heteropneustes for C) Heteropneustes for D) Heteropneustes for 	(<i>Kaaree/kadoo</i> in Ma ala. But it obtained its ossilis (Bloch) ongipectoralis Remade nicrops (Gunther) uscus Plamoottil	laya sci	alam) is a popular a ientific name only re and Regunathan	nd (ecer	delicious ntly, in 2021;	
60.	The systems that wor A) Digestive and care C) Cardiovascular an	k together to regulate diovascular d respiratory	wa B) D)	ter balance of the b Urinary and respira Urinary and cardio	ody ator vas	v are y cular	
61.	Which of the followingA) The vagus nerveC) Medulla oblongata	ງ parts of the brain reເ ເ	gula B) D)	tes the respiratory Cerebral peduncle Cerebellum	proc	cess?	
62.	Isotopes of an elemer A) Proton	nt have a different nur B) Neutron	nbe C)	er of Electron	D)	Atom	
63.	Digestion of proteins (A) Ileum	occurs in B) Liver	C)	Pancreas	D)	Rectum	
64.	The strongest bond is A) Electrostatic C) Hydrogen bonding	;]	B) D)	Covalent bond Van der waals			
Α		-12	-				

65.	Name the first cell wh A) Nk cells	ich is recruited at the B) Basophils	e pla C)	ce of infection. Neutrophils	D)	Macrophages
66.	The specificity of an aA) The heavy chainsB) Its valenceC) The variable portionD) The Fc portion of the second s	antibody is due to on of the heavy and li the molecule	ight	chain		
67.	According to Boyle's AA) The pressure andB) As the temperatureC) The total gas pressD) If the volume goes	Law of Gases volume of a gas are e goes up, the press sure is equal to the s s up, the pressure go	equ ure g sum es d	al goes up of the partial pressu lown	ures	i
68.	If there is any damage A) Regulation of body C) Co-ordination duri	e in the hypothalamu y temperature ng locomotion	s of B) D)	brain, it may affect Decision making Short-term memor	у	
69.	Primary immune reac A) IgE	tion is given by B) IgM	C)	IgA	D)	lgG
70.	"Blood bank" of the b A) Lungs	ody is B) Heart	C)	Spleen	D)	Liver
71.	The endocrine gland A) Thyroid gland C) Thymus gland	setting the biological	cloc B) D)	k of the body is Pituitary gland Pineal gland		
72.	These substances will to a larger molecule	Il not stimulate an imi	mun	e response unless	they	are bound
70	A) Antibody	B) Milligen	(U)	Hapten	D)	virus
73.	A) Fibrinogen	B) Albumin	C)	? Globulin	D)	Fibronectin
74.	Lining of the trachea i A) Stratified epitheliu C) Simple cuboidal e	is made up of m pithelium	B) D)	Simple squamous Pseudostratified e	epit pith	helium elium
75.	How many types of an A) Five	ntibodies are there ? B) Three	C)	Two	D)	Four
76.	Comprehension of sp A) Broca's area C) Association area	oken and written wor	rds t B) D)	akes place in which Wernicke's area None of these	are	ea of brain ?

77.	Which of the following statements is true about the IgM of humans ?A) It can protect the mucosal surface.B) It can cross the placenta.C) It is produced by high-affinity plasma cells.D) It is primarily restricted in the circulation.					
78.	How many lobes are A) 4	present in human left B) 2	lun C)	g ? 3	D)	1
79.	Which of the following A) Lysozyme	g compounds is not fo B) Lactoferin	ounc C)	l in tears ? IgA	D)	IgE
80.	B cells that produce a A) Neutrophils	and release large amo B) Killer cells	ount C)	s of antibodies are Plasma cells	calle D)	ed Basophils
81.	A) Gene silencer C) RNA interference	to silence the expres	ssio B) D)	n of specific genes. Dot blot technique Protein interferenc	e	
82.	 2. First gene responsible for human genetic disease was isolated by positional close was the gene of A) Sickle cell disease B) Cystic fibrosis C) Marfan syndrome D) None of the above 					itional cloning
83.	produc A) Interferons	ed by genetic engine B) Thymosin	erin C)	g is used to dissolv Beta Endorphin	e blo D)	ood clot. Urokinase
84.	Golden rice is a trans A) Insect resistance C) High Vitamin A co	genic crop of the futu	ire v B) D)	vith the following im High lysine conten Herbicide resistan	prov t ce	ved trait
85.	is speci	ally bred fish that could vironmental pollutants	d det	tect pollution by sele	ctive	ely fluorescing
	A) Glo Fish	B) F-Fish	C)	Flurofish	D)	Gemfish
86.	A monoclonal antibooA) AbzymeC) Allosteric enzyme	dy that has catalytic a s	ctivi B) D)	ty Antienzymes None of the above	!	
87.	are the delivery of vaccine.	substances added to	vac	ccine preparation th	at h	elp aid in the
	A) Alums	B) Ligases	C)	Adjuvants	D)	Synzymes
88.	Mouse in which norm A) Knock out mouse C) Nude mouse	al gene has been dis	able B) D)	ed is called Knock in mouse SCID mouse		
Α		-14	4-			

89.	In insects moulting ho A) Prothoracic gland	ormone ecdysone are B) Antennules	pro C)	duced by Mandibles	D)	Green glands	
90.	Blastulae produced b A) Coeloblastula	y spiral cleavage is ca B) Discoblastula	alleo C)	d Stereoblastula	D)	Periblastula	
91.	Tissue that produce s A) Transducer C) Responder	signal that changes th	ne cellular behaviour of other tissue B) Inducer D) None of the above				
92.	Coding regions of eul A) Introns C) Muton	karyotes is called	B) Exons D) None of the above				
93.	Exogenous agents the A) Teratogens	at causes birth defect B) Royalactin	ts ca C)	alled Polyphenism	D)	Polymorphism	
94.	Expanded form of BN A) Bone Morphogene C) Bis Phenol Proteir	IP is etic Proteins ns	B) Bone marrow Morphogenetic ProteiD) Bipolar Interferons				
95.	Capacity of undifferent organism is called A) Pleuripotent cells C) Unipotent cells	ntiated cells to develo	op into any type of cell in the body of anB) Totipotent cellsD) None of the above				
96.	The entrance of more called A) Monospermy	than one sperm durin B) Polyspermy	ng fe C)	ertilization resulting Induction	the D)	aneuploidy is Transduction	
97.	The person from whic A) Promoter	ch pedigree is initiated B) Lod score	d is C)	called Proband	D)	Probe	
98.	Trisomy 21 is called A) Edward Syndrome C) Cri-du-chat Syndrome	e ome	B) D)	Patau Syndrome Down Syndrome			
99.	Who secured Nobel F A) Edward Philip	Prize in Physiology in B) Annie Ernaux	202 C)	2 ? Svante Paabo	D)	Alain Aspect	
100.	When the plasma of a of this person would b A) Group A	a person has both anti be B) Group AB	A a C)	nd anti B antibodies Group O	s, th D)	e blood group Group B	

Space for Rough Work