1	Vladimir Putin as term since					
	a)2008	b) 2012	c)2018	d)2020	c	2018
2	The Hornbill Festival, the 'Festivals of Festivals' is an annual cultural fest of					
	a)Nagaland	b)Dehradun	c)Arunachal Pradesh	d)Meghalaya	a	Nagaland
3	The national anth composed by	em of Srilanka, 'Sı	i Lanka Matha' wa	as written and		
	a) Rabindranath Tagore	b) Ananda Samarakoon	c) Muruggapillai Nallathambi	d) Sandagomi Coperahewa	b	Ananda Samarakoon
4	The present Direc	ctor-General of the	World Health Orga	anization is		
	a)Amina Jane Mohammed	b)António Guterres	c)Munir Akram	d)Tedros AdhanomGhebr eyesus	d	Tedros AdhanomGhebreyesu s
5	No Question	·	·			1 mark for all
6	NO Question					1 mark for all
7		is acidic due to the		1		
	a) CO ₂	b) SO ₂	c) HNO ₃	d) H_2SO_4	а	CO ₂
8	*	ernor of Reserve Ba				
	a) Sri Shaktikanta Das	b) Sri M. K. Jain	c) Dr. M.D. Patra	d) Sri T. Rabi Sankar	а	Sri Shaktikanta Das
9		ent of the Wildlife				
	a) 2006	b) 2013	c) 2017	d) 2021	d	2021
10	Blue vanda is	- /	- /			
10	a) an orchid	b) insectivorous plant	c) Pitcher plant	d) the plant bearing the largest flower	a	an orchid
11	Which of the sets research strategy	of activities best in ?	ndicate the cyclic n	ature of action		
	a)Reflect, Observe, Plan, Act	b)Observe, Act, Reflect, Plan	c) Act, Plan, Observe, Reflect	d) Plan, Act, Observe, Reflect	d	Plan, Act, Observe, Reflect
12	In finalizing a thesis writing format which of the following would be a part of supplementary pages?					
	a) List of tables and figures	b)Table of contents	c) Conclusions of the study	d) Bibliography and appendices	d	Bibliography and appendices
13	students with a vi	The principal of a school conducted an interview session of teachers and students with a view to explore the possibility of their enhanced participation in school programms. This endeavour may be related to				
	a) Evaluation research	b) Fundamental research	c) Action research	d) Applied research	c	Applied research

14	Which of the foll	owing is an initial	mandatory step for	pursuing research		
	a) Developing a research design	b) Formulating a research question	c)Deciding about the data analysis procedure	d)Formulating a research hypothesis	b	Formulating a research question
15	What is a research	h design ?				
	a) A way of conducting research that is not grounded in theory	b) The choice between using qualitative or qualitative methods	c)The style in which you present your research findings, e.g. graphs	d) A framework for every stage of the collection and analysis of data	d	A framework for every stage of the collection and analysis of data
16	The depth of any	research can be jud	lged by	·		
	a) Title of the research	b) Objectives of the research	c) Duration of research	d) Total expenditure of research	b	Objectives of the research
17	What do you con	sider as the main ai	m of interdisciplin	ary research?		
	a) To bring out holistic approach to research	b) To over simplify the problem of research	c) To create a new trend in research methodology	d) To reduce the emphasis of single subject in the research domain	a	To bring out holistic approach to research
18	The study in whice as	ch the investigators	attempt to trace ar	effect is known		
	a) Survey research	b) Historical research	c) 'Ex-post facto' research	d) Summative research	с	'Ex-post facto' research
19	Bibliography give					
	a) Helps those interested in further research	b) Has no relevance to research	c) Shows vast knowledge of the researcher	d) Both b and c	a	Helps those interested in further research
20		following is not us	sed to test null hypo	othesis		
	a) Chi-squared test	b) Factorial analysis	c) t test	d) ANOVA	b	Factorial analysis
21	The F-test					
	a) Is essentially a two tailed test	b)Can never be a one tailed test	c) Can be one tailed as well as two tailed depending on the hypothesis	d) Is essentially a one tailed test	b	Can be one tailed as well as two tailed depending on the hypothesis
22	Field-work based	research is classifi				
	a)Biographical	b) Experimental	c) Empirical	d) Historical	с	Empirical
23	Which one is call	ed non-probability	sampling?			
	a) Quota sampling	b) Stratified random sampling	c) Cluster sampling	d)Systematic sampling	a	Quota sampling
24	Which correlation creativity and inte	n co-efficient best e elligence?	explains the relation $$	nship between		

	a) 0.3	b) 0.5	c) 0.6	d) 1.00	d	1.00	
25	Which of the foll	owing is not an exa	ample of a continue	ous variable?			
	a) Family size	b)Age	c) Height	d) volume	а	Family size	
26	Ribosomes pres	Ribosomes present within the mitochondria of eukaryotic cells are					
	a) 70s type	b) 80s type	c) 40s type	d) none of these	a	70s type	
27	The karyotype of	of a normal huma	n being (♂) is				
	a) 44 + XY	b) 44 + XX	c) 44 + XO	d) 22 + XY	a	44 + XY	
28	-	ction enzyme is	estion of a DNA known as				
	a). Palindromic site	b) . Flanking region	c) Ori C	d) None of these	a	Palindromic site	
29		ic oxidation of a produced in Yea	glucose molecu st	le, the following			
	a) Lactic acid	b) Ethanol	c) Pyruvic acid	d) None of these	b	Ethanol	
30	Angiotensin is s						
	a) Liver	b) Kidney	c) Bone Marrow	d) Spleen	b	Kidney	
31	Which one of th	e following is a g	glycoprotein horm	ione			
	a) TSH	b) GH	c). TRH	d) ACTH	a	TSH	
32	The lampbrush chromosome occur at which stage of meiotic prophase						
	a) Zygotene	b) Pachytene	c) Deplotene	d) Leptotene	с	Deplotene	
33	Which type of l						
	a) NK cells	b) T-cells	c) B-cells	d) All of the above	с	B-cells	
34	The mRNAs of						
	a) Monocistronic	b) Polycistronic	c) Heterocistroni c	d) none	b	Polycistronic	
35	Colour blindnes						
	a) X-linked dominant allele	b) X-linked recessive allele	c) Y-linked dominant allele	d) Y-linked recessive allele	b	X-linked recessive allele	

36	Sickle-cell anen	nia is caused by n	nutation in				
	a) Haemoglobin A	b) Haemoglobin B	c) Haemoglobin S	d) Haemoglobin F	a	Haemoglobin A	
37	Protein part of t	he enzyme is call	ed				
	a) Apoenzyme	b) Holoenzyme	c) Holoenzyme	d) Prosthetic group	a	Apoenzyme	
38	DNA replication	n occurs in	-				
	a) S phase	b) G1 phase	c) G0 phase	d) M phase	a	. S phase	
39	No Question					1 mark for all	_
40	Which one of th	ne following is an	inborn error of m	netabolism?			
	a) Cystinosis	b) Hartnup disease	c) Galactosemia	d) Triosinemia	c	Galactosemia	
41	Most abundant	lipid in plasma m	embrane is				
	a) Glycolipid	b) Phospholipids	c) Cholesterol	d) Sterol	b	Phospholipids	d corre
30	In higher organ	isms, the antigen	presenting cell is				onsidere
	a) T-cell	b) Megakaryocyt es	c) Eosinophil	d) Macrophage	đ	Macrophage	Answer b and c will be considered correct
40	Tissue rejection	is related with	·				and brand
	a) Suppressor T cells	b) Helper T cells	c) Cytotoxic T cells	d) All of the above	c	Cytotoxic T cells	40 Answer c
41	The disorder of	protein deficiency	y in infants is kno	own as			Ans
	· •	b) Scurvy	c) Kwashiorkor	d) Osteomalacia	c	Kwashiorkor	Q 40 Q 41
42	The karyoty	pe of a normal hu	man being (\mathcal{J}) is				1
	a) . 44 + XY	b) 44 + XX	c) 44 + XO	d) 22 + XY	a	44 + XY	
43	Testosterone is	produced by	•				
	a) Sertoli cells	b) Epidedymis	c) Spermatocytes	d) Leydig cells	d	Leydig cells	
44	Deoxygenated b	blood is carried by	/				
	a) Pulmonary artery	b) Pulmonary vein	c) Carotid artery	d) Aorta	a	Pulmonary artery	
45	5'-Capping occu	rs in	I	<u> </u>			

46 47 48 49	a)20000-25000 How many DNA a) 46	f estimated protein b)50000-60000 molecules are pres b)92	c) 1000-2000	e humans? d)2000-3000	a	
48	How many DNA a) 46 Which of the follo	molecules are pres	,	d)2000-3000	а	
48	a) 46 Which of the follo	b)92	ent in human haplo		u	20000-25000
	Which of the folle	,		id cells?		
			c) 23×10^{22}	d) 23	d	23
49	a) Reverse	owing enzyme is re	sponsible for cDN	A formation?		
49		b) Telomerase	c) RNA	d) DNA ligase	а	Reverse transcriptase
49	transcriptase		polymerase			
		owing protein first psomal introns duri				
	a) BBP	b) U2 snRNP	c) U5 snRNP	d) U2AF35	а	BBP
50	Eukaryotic chrom	losomes are made u	ıp of			
	a) DNA	b) Proteins	c) Lipid	d) Both a and b	а	Both a and b
51	Which of the folle	owing proteins will	· •	linkage in		
_	eukaryotic organi					
	a) Proteins of	b) Cytosolic	c) Lysosomal	d) Secretory	b	Cytosolic proteins
	golgi apparatus	proteins	proteins	proteins		
52		in chemical	r	Γ		
	a) RNA	b) Protein	c) Ribonucleoprot	d) Lipid	с	Ribonucleoprotein
	****		ein			
53		owing cyclin/CDKs	*	-		
	a) CyclinD/CDK4	b) Cyclin E/CDK4	c) Cyclin D/CDK2	d) Cyclin E/CDK2	а	Cyclin D/CDK4
54	What is sequence tRNA	of nucleotides in the	he extreme 3' end o	of acceptor arm of		
	a) 5´-CAG-3´	b) 5´-GAA-3´	c) 5´-CCA-3´	d) 5´-CGA-3´	с	5´-CCA-3´
55	In the most sever dominant mutation					
	a) Lamin A	b) Myosin	c)Telomerase	d)Tubulin	а	Lamin A
56	Which of the folle	owing cancer can b	e treated by hormo	nal therapy.		
	a) Lung	b) Breast	c) Kidney	d) Colorectal	b	Breast
57	In eukaryotic cells 45S pre-rRNA are transcribed by					
	a) RNA	b) RNA	c) RNA	d) Both a and c	b	RNA polymerase I
50	polymerase III	polymerase I	polymerase II	with the muster		
58		which are often of in condensed conce	•			
-+	a) Euchromatin	b)	c)	d) None	с	Heterochromatin
		Psudochromatin	Heterochromati n		-	
59	Which of the fall	owing transcription	factor has Zine fir	uger?		

	a) TFIIIA	b) TFIIH	c) TFIID	d) None	a	TFIIIA
60	Melting temperat	ure for primer in P	CR is given by			
	a) 4(G+C) + 2(A+T)	b) 2(G+C) + 4(A+T)	c) 2(A+G) + 4(C+T)	d) 4(A+G) + 2(C+T)	a	4(G+C) + 2(A+T)
61		owing heavy metal on, keratosis, variou				
	a) Mercury (Hg)	b) Lead (Pb)	c) Cadmium (Cd)	d) Arsenic (As)	d	Arsenic (As)
62		owing is not second	dary pollutant?			
	a) Acid Rain	b) Peroxyacetyl nitrate	c) Chlorofluorocar bon	d) Both a and b	с	Chlorofluorocarbon
63	Primary consume	ers in the detritus fo				
	a) Insect Larva, nematode	b) Bacteria and fungi	c) Herbivorous	d) Both a and c	b	Bacteria and fungi
64		us of insect with (he middle looking	-			
	a) Bombus	b) Xylocopa	c) Lepidotrigona	d) Apis	d	Apis
65	Which is the ma honey bee ?					
	a) Sugar	b) Lipid	c) water	d) Protein	c	water
66	Which part of the					
	a) Anterior silk gland	b) Gland of Fillipi	c) Middle silk gland	d) Posterior silk gland	d	Posterior silk gland
67	Wax of worker	honey bee is secre	eted from			
	a) Prothoracic gland	b) Corpora allata	c) Hypopharynge al gland	d) Abdominal wax gland	d	Abdominal wax gland
68	Silk glands of si	ilkworms are loca				
	a) Labio- hypopharynge al complex	b) Labrum	c) Near oesophagus	d) Extend throughout the abdomen	d	Extend throughout the abdomen
69	Which of the for luminescence	llowing compoun	d is not involved	with firefly		
	a) ATP	b) Luciferase	c) Luciferin adenylate	d) Alanine	d	Alanine
70	Chitosan is					
	a) Chitin linked with protein	b) Chitin linked with pigment	c) Deacetylated chitin	d) Monomer unit of chitin	с	Deacetylated chitin
71	-	llowing is not a h	ormone			

	a) Allatotropin	b) Bursicon	c) Ecdysteroid	d) Ectonon	d	Ectonon
72	Insect juvenile h	ormone is secrete	ed by	1		
	a) Cerebral neurocecretory cells	b) Ventral neurosecretory cells	c) Corpora allata	d) Corpora cardiaca	c	Corpora allata
73		ture of insect hor	mones secreted b	У		
	neurosecretory o					
	a) peptide	b) steroid	c) both peptide and steroid	d) terpenoid	a	peptide
74		amine residues ar				
	a) Cellulose	b) Chitin	c) Globular protein	d) Plant cell wall	b	Chitin
75	Japanese enceph	alitis is transmitt	ed by			
	a)Aedes (Stg.) aegypti	b)Anopheles (Cel.) culicifacies	c)Culex (Cux.) vishnui	d)Mansonia (Mnd.) uniformis	с	Culex (Cux.) vishnui
76	Azadirachtin is a	an agonist of the	insect hormone			
	a) Bursicon	b) Ecdysone	c) Juvenile hormone	d) Prothoracicotr opic hormone	b	Ecdysone
77	Silverfish belon	g to order				
	a) Salmoniforme s	b) Cypriniformes	c) Zygentoma	d) Archaeognath a	c	Zygentoma
78	Which of the fol	llowing is not a ju	venile hormone a	nalog:		
	a) Diflubenzuron	b) Juvabione	c) Methoprene	d) Kinoprene	a	Diflubenzuron
79	Which of the fol	llowing is not a p	yrethroid insectic	ide		
	a) Abamectin	b) Cypermethrin	c) Deltamethrin	d) Permethrin	a	Abamectin
80	When the pest p pest will be calle	opulation crosses	the EIL frequent	ly, the type of		
	a) occasional pest	b) perennial pest	c) sub- economic pest	d) severe pest	b	perennial pest
81	The newly colle type specimen is	cted specimen to s known as	use as a substitute	e of the original		
	a) Holotype	b) Paratype	c) Syntype	d) Neotype	d	Neotype
82		is transferred from or and date, the au		other retaining		
	a) without any parenthesis	b) italicized	c) written in parenthesis	d) written in uppercase letter	с	written in parenthesis
83	U	tatements are mac Replication form i	le on DNA replica s a branch point in			

	'eye' or	'hubble'				
	•	A replication bubb	le contains two re	eplication forks		
		DNA replication is				
	interpret					
		Aultiple priming e				
		and lagging strand				
		of the following is				
	a) A and B	b) B and C	c) C and D	d) A and C	а	A and B
84	•	lase (HDAC) cata	•	•		
		erminal of histone	s. Which amino a	cid of histone is		
	involved in this	1		d) II: e4: d: e e		I voin e
07	a) Lysine	b) Arginine	c)Asparagine	d) Histidine	a	Lysine
85		body which is N		1		
	a)P-bodies	b)Nucleolus	c)Cajal bodies	d)	а	P-bodies
				Interchromatin		
				granule		
86	During oukerve	tio coll division n	atanhasa ta anan	clusters		
80	During eukaryotic cell division, metaphase to anaphase transition is regulated by degradation of -					
	a)Cycline B1	b)CDK1	c)Aurora A	d) Polo like	b	CDK1
			Kinase	kinase	-	
87	Which one the f	ollowing is a grou	ip of signalling m	olecules that		
	act as morphoge					
		ated through the r				
	partner Smoothe			Γ		
	a) Hedgehog	b) Notch	c)Wnt Protein	d)β-catenine	а	Hedgehog Protein
00	Protein	protein	a harina truccia			
88	do NOT act as r	toplasmic domain eceptors for -	is having tyrosine	e kinase activity		
	a) Epidermal	b) Platelet-	c) Insulin	d) Transferrin	d	Transferrin
	growth factor	derived				
	(EGF)	growth factor				
20		(PDGF)	11 11			
89		llowing is NOT a	-		1	1
	a) Cadherin	b) Selectin	c)	d) laminin	d	laminin
			Immunoglobul			
			in (Ig) superfamily			
90	Which of the fo	llowing is not a se		?		
-	a) Cyclin	b)	c) Inositol	d)	d	Phosphatidyl
	AMP	Diacylglycerol	triphosphate	Phosphatidyl	u	inositol
			PPP	inositol		
91	Given below are	e events in the cel	l cycle-	1		
	•	ation of Lamin A,				
	(B) Phosphoryla	ation of Rb (Retin	oblastoma protein	n)		

	(C) Dolumbiquit	ination of Securin				
				a and nuclear		
	(D) Association					
		roteins with chron le following reflect		wanza of avanta		
	in mammalian c	/			4	D.A.C.D
	a)	b)	c)C \rightarrow A \rightarrow D \rightarrow	· ·	d	$B \rightarrow A \rightarrow C \rightarrow D$
00		$B \rightarrow C \rightarrow D \rightarrow A$	B	D		
92	by :	r of double strand	breaks in DNA i	s accomplished		
	a)Non-	b)Base	c)Homologous	d)Mismatch	с	Homologous
	homologous	excision repair	recombination	repair	-	recombination
	end-joining					
93		halassemia major	except?			
	a)Transfusion	b)Splenohepta	c)Ineffective	d)Macrocytic	d	Macrocytic
	dependency	tomegaly	erythropoiesis	anaemia	ŭ	anaemia
	dependency	tomogary	er yun opoiesis	unuennu		undenna
94	Which one of th	e following genes	s was NOT part o	f transcription		
	factors used to g					
	mouse skin fibro		I I I I I I I I I I I I I I I I I I I			
	a)Oct4	b)Sox2	c)c-jun	d)Kfl4	с	c-jun
95	,	rts and procedures	, j	,		5
10	are used to enha					
	these categories					
	a)Behavioural	b)Serial tools	c)Industry	d)Statistical	d	Statistical tools
	tools		statistics	tools		
96	A magazine prin	nted a survey in it	s monthly issue a	nd asked		
	readers to fill it					
	type of sample i	s called :				
	a)Cluster	b)Self-selected	c)Stratified	d)Simple	b	Self-selected
	sample	sample	sample	random		sample
	-	-	-	sample		
97	Which one of th	e following varia	bles is not catego			
	a)Age of a	b)Gender of a	c)Choice on a	d)Marital	a	Age of a person
	person	person: male	test item: true	status of a		
		or female	or false	person (single,		
				married,		
				divorced,		
				other)		
98		llowing would ind	licate that a datas	et is not bell-		
	shaped?		Γ	1		
	a)The range is	b)The range is	c)The mean is	d)There are no	с	The mean is much
	equal to 5	larger than the	much smaller	outliers		smaller than the
	standard	interquartile	than the			median
a -	deviations	range	median			
99	Pick the choice	that best complete	es the following s	entence. If a		

	relationship bety significant, it me					
	a)related in the population represented by the sample	<u> </u>	c)related in the sample due to chance alone	d)very important	a	related in the population represented by the sample
10 0	The intercept in					
	a)The strength of the relationship between x and y	b)The expected x value when y is zero	c)The expected y value when x is zero	d)A population parameter	с	The expected y value when x is zero