# DBT STAR COLLEGE SCHEME 2021-22 DEPARTMENT OF ZOOLOGY

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सूचना

B.Sc. II (BZ) और B.Sc. III (BZ,ZC,ZD) के सभी छात्रों एवं छात्राओं को सूचित किया जाता है कि दिनांक 29/11/2021 को जन्तु विज्ञान विभाग द्वारा डी० बी० टी० योजना के अन्तर्गत एक क्यूज परीक्षा का आयोजन किया गया था जिसका Paper और Answer Sheet आज दिनांक 03/12/2021 को महाविद्यालय के बेब साइट पर अपलोड किया जा रहा है। परीक्षा परिणाम की घोषणा शीघ्र ही प्रेषित की जायेगी।

105:12:21

भवदीय

डॉ० (संजय कुमार श्रीवास्तव)



### **DBT STAR SCHEME QUIZ 2021-2022**



#### DEPARTMENT OF ZOOLOGY

U.	₽.	COLLEGE	(AUTONOMOUS),	VARANAI
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Nam	e of St	tudent :	Father's	Name				
Clas	s :	Section : II	) Numb	er :				
Time	: 1.30	hr		Maximum Marks-100				
	Attem	pt all questions, All questions are multi	ple choic	e type mark ( > ) to right answer.				
1.	The	term "Biology" was coined by						
	Α	Jean-Baptiste Lamarck	В	Robert Hook				
	C	Aristotle	D	Horace Walpole				
2.	The	Study of distribution, causes and control of i	nfectious	disease is called				
	Α	Pathology	В	Parasitology				
	C	Pharmacology	D	Epidemiology				
3.	The	branch of biology deals with Agriology						
	Α	Custome of Primitive Man	В	Flying animals				
	C	Farming, raising crops and husbandry	D	Blood and Lymph vessels				
4.	The	Father of Virology was		brood and bymph vessels				
	Α	Wendell M. Stanley	В	Edward Jenner				
	C	Paul Berg	D	Martinus Willem Beijerinck				
5.	Who	was the first Indian Physician to present the		of digestion metabolism and immunity?				
	Α	Maharshi Susruta	В	Maharshi Bhaskara				
	C	Maharshi Dhanvantari	D	Maharshi Charaka				
6.	Bran	ch of Zoology dealing with the study of fishe						
	Α	Herpetology	В	Ichthyology				
	C	Ornithology	D	Myrmecology				
7.	Oleri	iculture is the cultivation of		my mecology				
	Α	Vegetables	В	Fruits				
	C	Crop plants	D	Mushrooms				
8.	Mito	sis was discovered by		Widshi oonis				
	Α	R. Brown	В	W. Flemming				
	С	A. Weismann	D	Strasburger				
9.	Dr Ha	ar Govind Khorana was born in Indian state	<u></u>	Strasburger				
	Α	Punjab	В	Haryana				
	C	Uttar Pradesh	D	Himanchal Pradesh				
10.	Mate	ch the names of branches of biology listed ur						
	n II Cho	ose correct answer	ider coldi	in I with the field of study given under				
		Colum I		Colum II				
	A	Sericulture		Silkworm				
	В	Oncology		Pollen				
	C	Phycology		Cancer				
	D	Palynology						
11.		scientist who cut the tails of mouse in many	ganaratio	Fungi				
	A	Bateson	B	Weismann				
	C	Lamarck	D					
12.		erm Ecosystem was proposed by	D	Darwin				
12.	A	Lindeman						
	C	Odum	В	Stanley				
13.			D	Tensely				
13.	The energy transformation in the nervous system is							
	A	Chemical to radiant	В	Chemical to Electrical				
	С	Chemical to Mechanical	D	Mechanical to radiant				

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14.	Allt	he synthesis reactions in the body form a d	ivision of	Metabolism called
	Α	Anabolism	В	Catabolism
	C	Chemical reaction	D	None of these
15.	Enzy	mes are biological catalysts. They all share	which of	the following characteristics?
	Α	Increase the rate of reaction	В	Lower the activation of energy of
	_			reaction
	С	Are not consumed in chemical reaction	D	All of the above
16.	Whit	ch of the following statements is true about	t death?	
		eath occurs only due to accidents	ВА	n organism dies because all its cells die
	C De	eath occurs only in multicellular animals		eath helps in recycling and maintain the
	_	Y22 4	b	alance of matter in nature
17.		es of Birds are		
	A	Hollow	В	Pneumatic
	C	Hollow and Pneumatic	D	None
18.		est virus is		
	A	Pox Virus	В	Penicillium virus
(4.74)	С	Coli phage lamda	D	Wound tumour virus
19.	AIDS	virus has		
	A	Single Stranded RNA	В	Double Stranded RNA
	C	Double Stranded DNA	D	Single Stranded DNA
20.		na virus is infected which part of the body?		
	Α	Heart	В	Lungs
	С	Liver	D	Brain
21.	Prok	aryotes calledare similar in many v	ways to eu	ukaryotic organism.
	A	Protozoa	В	Eubacteria
	C	Cyanobacteria	D	Archaebacteria
22.	A coe	elom (Body cavity) derived from blastocoel	is known	as
	Α	Schizocoel	В	Pseudocoel
	C	Haemocoel	D	Enterocoel
23.	Anim	al with radial symmetry in adult and bilater	ral symme	etry in larva are-
	A	Annelids	В	Echinoderms
	C	Coelenterates	D	Platyhelminthes
24.	G1 ph	nase in cell cycle is characterized by the		
	A	Synthesis of DNA	В	Division of Centriole
	C	Synthesis of RNA	D	Aster formation
25.	Durin	ig meiosis centromere divides at which stag	e	
	Α	Prophase I	В	Metaphase II
	C	Anaphase I	D	Anaphase II
26.	In Wh	nich phase of cell division chromosomes are	arranged	on the equator?
	A	Anaphase	В	Telophase
	C	Metaphase	D	Interphase
27.	The d	rug colchicine has inhibitory effect on cell c	ycle in wh	nich stage?
	Α	S	В	Metaphase
	C	G <sub>2</sub>	D	$G_2$
28.	Starch	and Sugar together are named as		*
	A	Carbohydrate	В	Proteins
	C	Glucose	D	Fats
9.	Chiasi	mata are formed-		
	A	Exchange of part of paired homologous c	hromosor	mes.
	В	Exchange of part of unpaired non-homological	ogous chr	omosomes.
	C	Duplication of part of paired homologous	chromos	omes .
	D	Loss of some part of homologous chromo	somes.	
0.	Protei	ns are synthesized at		
	Α	Mitochondria	В	Ribosomes
	C	Golgi bodies	D	Plasma membrane

31.	Nivel and de te		
31.	Nucleotide is		
	A Base-Sugar-OH C Sugar phosphate	В	Base-Sugar-Phasphate
22		D	Base-sugar-base
32.	Which of the following is the simplest amino acid		
	A Glycine C Keratin	В	Tyrosine
22		D	Haemoglobin
33.	Nitrogenous bases in DNA are		
	A ATGC	В	ATUC
24	C AUGC	D	UTGC
34.	What is true about enzymes?		
	A All proteins are enzymes	В	All enzymes are proteins
	C All enzymes are not protiens	D	All enzymes are vitamins
35.	Induced-fit-model of enzymatic actions was prop	osed by	
	A Koshland	В	Buchner
	C Emil Fischer	D	Beadle and Tatum
36.	Basal metabolic rate in an animal is controlled by	/	
	A Pancrease	В	Liver
	C Pituitary	D	Thyroid
37.	The term " Crossing over was introduce by		-1
	A Beadle and Tatum	В	Sutton and Boveri
	C Bateson and Punnett	D	Morgan and Cattell
38.	Mitochondria are "Power House" of cells because	9	
	A They produce energy currency of cell	В	They produce ATP
	C They generate electric power	D	Both A and B
39.	Which of these is not a vertebrate?		
	A Whale	В	Amphioxus
	C Sparrow	D	Otter
40.	Larva of Balanoglossus is		Otter
	A Tornaria	В	Muller's larva
	C Kentrogen larava	D	Tadpole
41.	Amnion and Allantois are found in		raupole
	A Fish, Frog and Fowl	В	Fish, Fox
	C Fowl and Fox	D	
42.	In vertebrates which one of the following structu		Frog, Fowl and Fox
	thyroid gland?	re is bei	leved to have been transformed into
	A Urostyle	n	Domestide .
	C Endostyle	В	Pygostyle
43.	The jawless vertebrate is	D	Anal Style
43.	A Fox		
		В	Hyla
44.	THE RESERVE THE PARTY OF THE PA	D	Crocodile
44.	Most fishes, amphibians and reptiles are		
	A Oviparous	В	Viviparous
A.F.	C Homeiothermal	D	Scaly
45.	Glycolysis is a process in which		
	A Glucose is converted into glycogen		
	B Glycogen is converted into glucose which	is then t	transformed into pyruvic acid.
	C Glucose is transformed to pyruvic acid		
	D Sucrose is converted into fructose and glu	cose	
46.	Living fossil is		
	A Dogfish	В	Coelacanth (Latimeria)
	C Flying fish	D	Climbing perch
47.	Fish is a good source of		
	A Carbohydrate	В	Proteins
	C Fats	D	Minerals

48.	Scoliodon is commonly called dogfish due	to one of its fo	llowing characteristics?
	A Gait	В	Mouth
	C Power of Smell	D	Carnivorous
49.	Fresh water bony fishes maintain water ba	lance by	
	A Excreting hypotonic urine		creting salt across their gill
	C Drinking small amount of water		creting waste in the form of uric acid
50.	Which one of the following is a true fish?	0 2,	tereting waste in the form of the acti
	A Starfish	В	Dogfish
	C Jellyfish	D	Cuttlefish
51.	Which one of the following animal has a ne		
	A Fishes	В	Birds
	C Amphioxus	D	Snakes
52.	Blood vascular system in hemichordate is	U	Stiakes
	A Open type	В	Closed tune
	C Reduced type	D	Closed type Absent
53.	Non cleidoic eggs occurs in	U	Absent
	A Birds	D	Cialina
	C Reptiles	В	Fishes
54.	Retention of larval characters in adults is c	D	Platypus
J-1.	A Ontogenesis		
91 -	3	В	Parthenogenesis
55.	110010111	D	Phylogenesis
33.	Which one of the following is a poisonous		
	A Hayla	В	Bufo marinus
56.	- mana digitina	, D	Necturus
30.	Scales are found in		
	A Fishes	В	Snakes
23.	C Both fishes and snakes	D	None of these
57.	Eggs of Reptiles and Birds can be designate	ed as	
591	A Alecithal	В	Isolecithal
T)	C Homolecithal	D	Telolecithal
58.	Study of Snakes is called		
	A Ichthiology	В	Serpentology
_ S.	C Enterology	D	Entomology
59.	Foramen of Panizzae is found in heart of		
	A Frog	В	Pigeon
	C Crocodile	D	Rabbit
60.	Metanephric kidneys are found in		
	A Reptiles	В	Birds
	C Mammals	D	Reptiles, Birds and Mammals
			610.11
61.	Air sacs of Birds		
	A Keep body worm	В	Facilitate blood circulation
	C Maintain body temperature	D	Reduce body weight
62.	Pecten a comb like structure is found in the	e eye of	, ,
	A Birds	В	Fishes
	C Frogs	D	Mammals
63.	Name the "Bird Man of India"		
	A Karm Narayan Bahl	В	M.L. Bhatia
	C Salim Ali	D	E. M. Thaillayampalam
64.	A well known bird sanctuary of our country	_	c. m. manayampalam
	A Kaziranga Bird Sanctuary	В	Bharatpur Bird Sanctuary
	C Bandipur Bird Sanctuary	D	Palamu Bird Sanctuary
		D	r diamid bild Sanctuary
65.	The smallest measuring unit in cell biology	ie	
	A Electron		Angstrom
	C Nano meter	B D	Angstrom
	- Hand meter	U	Micro meter

	66.	Re	esolving power of a microscope means th	ne capaci	tv to		
		A	iviagnity the image		В	Distinguish between two aking	
		C	Distinguish between two organelle	es .	D	Distinguish between two object Distinguish between two Close	ts
	67.	Ce	Il theory was given by			Points	
		A	Metchnikoff				
		C			В	August Weismann	
	68.		Sutton and Boveri		D		
	50.	A	e statement " Omnis cellua e cellula" (Al	l cells fro	m cel	ls) given by	
		C	Modert Brown		В	Rudolf Virchow	
	69.		M.J. Schleiden		D	Theodor Schwann	
	03.	Cel	ll organelles common in Protista and Mo	nera is			
		A	Vacuole		В	Ribosomes	
	70.	C	Lysosomes		D	Chl-	
	70.	vvn	chromosomes	only und	er the	electron microscope?	
			cinoniosomes		В	Leucoplast	
		C	Ribosomes		D	Chloroplast	
	71.	Org	ganelles involved in photorespiration are			Chioropiast	
		A	Glyoxysomes, Peroxysomes and Mit	tochondr	ia		
		В	Chloroplast, Mitochondria, peroxyst	omes			
		C	Mitochondria, chloroplast and ribos	omes			
		D	Mitochondria, nucleus and ribosom	es			
	72.	The	Nucleolus is the site of formation of	-			
		A	Ribosomes		3	Donous	
		C	Chromosomes		)	Peroxysomes	
	73.	Whi	ch cell organelle is absent in human spe	rm2	,	Spindle fibers	
		A	Endoplasmic reticulum				
		C	Centrioles	E		Nucleus	
	74.	Lyso	somes are formed by		)	Mitochondria	
		A	Endoplasmic reticulum				
		C	Golgi membrane	E		Mitochondria	
	75.	Ana	erobic respiration is a type of		)	Both A and C	
		Α	Complete oxidation				
		C	Fermentation	В	K	Purification	
	76.	Max			)	Anabolic reaction	
		Α	imum amount of energy is liberated on Fats			*	
		С	Carbohydrates	В		Proteins	
	77.			D		Nucleic acid	
		A	man beings anaerobic respiration occur Neurons				
		C	White muscles	В		Liver	
	78.			D		Brain	
		A	energy currency of a cell is  NAD				
		C	ATP	B		AMP	-
	79.			D		Glucose	
	, ,,	A	igh energy bonds of ATP are between				
		C	C-N	В		C-C	
	80.		O-P	D		C-O	
	ου.	inan	nonohybrid cross the genotypic ratio of I	2 is			
		A	3:1	В	1:2	:1	
	01	C	4:0	D		: 1: 1	
	81.	Pheno	otypic dihybrid ratio in F <sub>2</sub> generation is				
		A	1:3	В	1:2	:1	
		C	9:3:3:1	D		:1:1	
2						ed, h	
	82.	In her	edity, the genes are obtained from				
		A	Father	В		Mother	
		C	Both from Father and Mother	D		None of these	
					Y	none of these	

Ala Day

83.	was introduced by		
	A Baedle and Tatum	D	A A Commence of the Commence o
	C R.W.Hedges and A.E. Jacob	В	Morgon and Bridge
84.	Colchicine brings about	D	Nirenberg and Khorana
	A Cell division		
		В	Polyploidy
85.	CCII CIOTIGALIOTI	D	
	and a street experimenta	lly demonst	trated by
	· ····· ividilei	В	Hugo de Vries
	C James Watson	D	
86.	Maternal inheritance is due to the genes pre	sent in	Har Govind Khorana
	A Nucleoplasm		
	C Mitochondria	В	Nucleous
87.	The term "Chromosome" was coined by	D	Lysosomes
	A C. Benda		
3.	C Robert Hooke	В	W. Waldeyer
88.	Which of the following and the	D	247 00 D S
	Which of the following techniques is used for cloned genes?	separating	DNA fragments and identification of
			o and identification of
	A Western blotting	В	Southern blotting
00	C Northern blotting		None of these
89.	Complementary DNA is produced from RNA b	v	None of these
	A DINA nelicase	В	200
	C Reverse transcriptase		DNA Polymerase
90.	Abiogenesis means	D	DNA dependent RNA Polymerase
	A Spontaneous generation		
	C Origin of pansperia	В.	Germplasm Theory
91.	Life originated	D	Physico-chemical origin of life
			, and ongin of the
	A In water	В	On land
02	C In air	D	
92.	Which one is present today but was absent ab	out 3 to 5 n	illion viese
	A O <sub>2</sub>	B	
	C H <sub>2</sub>	18 (17)	N <sub>2</sub>
93.	When gall bladder of a man is removed	√ D	CH₄
	A Fat digestion is not possible	2	
	C Effect of pancreatic juice upon food is	В	Acidity continues in duodenum
	impaired		and protection to the second second
94.	largest variety of diagons	D	All of these
	Largest variety of digestive enzymes are found	in	
	Omnivores	В	Herbivores
95.	C Carnivores	D	Parasites
33.	During inspiration, the diaphragm		urasites
	A Relaxes to become dome shaped	В	Control
125	Expand	D	Contracts and Flattens
96.	During hibernation frog respires	D	Shows no change
	A Only by lungs		
	C Only by skin	В	Only by mouth
97.	Residual air mostly occurs in	D	By skin and lungs
	A Nostril		
	1.03411	В	Alveoli
98.	DIOTICIOS	D	Trachea
30.	The Book "Philosophic Zoologique" was written	by	· · derica
	Lamarck	В	Mondal
Lati	C Hugo de Varies		Mendel
99.	Which of the following is a by product of RBC bro	aakda	Haeckel
	A Insulin		
	C Haemoglobin	В	Bilirubin
100.	The Child Country of the Child	D	Strapthevidin
	Which is a classical example of co dominance?		A 100
	- The A	, B	Blood Type B
	C Blood Type AB	D	Blood Type O
			, pc v





### **DBT STAR SCHEME QUIZ 2021-2022**

**DEPARTMENT OF ZOOLOGY** 

## U. P. COLLEGE (AUTONOMOUS), VARANAI QUIZ ANSWER SHEET

**EXAMINATION DATE 29/11/2021** 

Q.1	А	Q.26	С	Q.51	С	Q.76	Α
Q.2	D	Q.27	В	Q.52	А	Q.77	С
Q.3	A	Q.28	А	Q.53	В	Q.78	С
Q.4	D	Q.29	A	Q.54	С	Q.79	С
Q.5	D	Q.30	В	Q.55	В	Q.80	В
Q.6	В	Q.31	В	Q.56	С	Q.81	С
Q.7	A	Q.32	A	Q.57	D	Q.82	С
Q.8	D	Q.33	A	Q.58	В	Q.83	С
Q.9	Α	Q.34	С	Q.59	С	Q.84	В
Q.10	Α	Q.35	A	Q.60	D	Q.85	Α
Q.11	В	Q.36	D	Q.61	D	Q.86	С
Q.12	D	Q.37	D	Q.62	Α	Q.87	В
Q.13	В	Q.38	D	Q.63	c	Q.88	В
Q.14	A	Q.39	В	Q.64	В	Q.89	С
Q.15	D	Q.40	A	Q.65	С	Q.90	Α
Q.16	D	Q.41	С	Q.66	D	Q.91	Α
Q.17	С	Q.42	С	Q.67	D	Q.92	Α
Q.18	A	Q.43	С	Q.68	В	Q.93	A
Q.19	A	Q.44	A	Q.69	В	Q.94	Α
Q.20	В	Q.45	С	Q.70	С	Q.95	В
Q.21	D	Q.46	В	Q.71	В	Q.96	С
Q.22	В	Q.47	В	Q.72	A	Q.97	В
Q.23	В	Q.48	С	Q.73	A	Q.98	A
Q.24	А	Q.49	Α	Q.74	D	Q.99	В
Q.25	D	Q.50	В	Q.75	С	Q.100	С

