Test Booklet No This booklet consists of 100 questions and 18 printed pages.		
RGUCET/2024//_	Series	NIL

RGUCET 2024 Common Entrance Test, 2024

ADVANCE POST GRADUATE DIPLOMA (BIODIVERSITY)

Full Marks: 100	Time: 2 Hours
Roll No.	
Day and Date of Examination:	
Signature of Invigilator(s)	
Signature of Candidate	
General Instructions:	

PLEASE READ ALL THE INSTRUCTIONS CAREFULLY BEFORE MAKING ANY ENTRY.

- 1. DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO.
- 2. Candidate must write his/her Roll Number on the space provided.
- 3. This Test Booklet contains 100 Multiple Choice Questions (MCQs) from the concerned subject. Each question carries 1 mark. There shall be negative marking of 0.25 against each wrong attempt.
- 4. Please check the Test Booklet to verify that the total pages and total number of questions contained in the test booklet are the same as those printed on the top of the first page. Also check whether the questions are in sequential order or not.
- 5. Candidates are not permitted to enter into the examination hall after the commencement of the entrance test or leave the examination hall within one hour thirty minutes.
- 6. Making any identification mark in the OMR Answer Sheet or writing Roll Number anywhere other than the specified places will lead to disqualification of the candidate.
- 7. Candidates shall maintain silence inside and outside the examination hall. If candidates are found violating the instructions mentioned herein or announced in the examination hall, they will be summarily disqualified from the entrance test.
- 8. In case of any dispute, the decision of the Entrance Test Committee shall be final and binding.
- 9. The OMR Answer Sheet consists of two copies, the Original copy and the Student's copy.

1	Which of the following should be added to make $x^{16} + 81$ a perfect square?					
	a) 14 x ⁸	b) $16x^8$	c) $18x^8$	d) $20x^8$	c	
2	What comes next	in the series AGTS, l	BHUT, CIVU,			
	a) STGA	b) DJWV	c) DVUT	d) None of these	b	
3	If $x = +$, $y = -$, $z =$	$=\div$, $P = \times$ then (8 p	10) z 4 y 2 = ?		Answ er option (a,b,c or d)	
	a) 40	b) 20	c) 18	d) 8	С	
4	Which parameter predators consume	in the Lotka-Volterr e prey?	a model determine	es the rate at which	Answ er option (a,b,c or d)	
	a) r	b) K	c) a	d) c	a	
5		lowing statistical m ecological research?		ly used to analyze	Answ er option (a,b,c or d)	
	a) ANOVA (Analysis of Variance)	b) Chi-square test	c) Markov chain analysis	d) Linear regression	d	
6	_	concept describes the ents to coexist in a c	-	pecies with similar	Answ er option (a,b,c or d)	
	a) Competitive exclusion principle	b) Resource partitioning	c) Niche differentiation	d) Ecological succession	ь	
7	Which statistical method is commonly used to analyze species abundance data in community ecology research?					
	a) ANOVA (Analysis of Variance)	, 1	c) Chi-square test	d) Linear regression	b	
8	Which of the fol impacting biodive	lowing is an exampersity?	ole of an invasive	species negatively	Answ er option (a,b,c or d)	

	a) Native pollinator species	b) Endangered predator species	c) Introduced plant species outcompeting native vegetation	d) Native fungal species facilitating decomposition	С	
9		owing is NOT a meth			Answ er option (a,b,c or d)	
	a) Species reintroduction	b) DNA barcoding	c) Ecological modeling	d) Remote sensing	a	
10	Which statistical r community?	neasure is commonly	used to quantify sp	becies diversity in a	Answ er option (a,b,c or d)	
	a) Pearson correlation coefficient	b) Simpson's diversity index	c) Chi-square test	d) Analysis of Variance (ANOVA)	b	
11	What is the prima	ry role of genetic div	ersity in ecosystem	s?	Answ er option (a,b,c or d)	
	a) It ensures stability and adaptability to changing environmental conditions	b) It promotes species competition and extinction	c) It hinders ecosystem resilience	d) It accelerates ecosystem degradation	a	
12	Which of the following is an example of an ecosystem service provided by biodiversity?					
	a) Production of fossil fuels	b) Regulation of climate	c) Mining of minerals	d) Construction of buildings	b	
13	Which internation sustainable use?	nal treaty aims to	conserve biodivers	ity and ensure its	Answ er option (a,b,c or d)	
	a) The Paris Agreement	b) The Kyoto Protocol	c) The Nagoya Protocol	d) The Montreal Protocol	c	

14	What is the term f	For the protected are	eas designated to con	serve biodiversity?	Answ
					er
					option
					(a,b,c
					or d)
	a) Green zones	b) Conservation	n c) Biodiversity	d) Urban sprawls	
		reserves	hotspots		b
15			removal of invasive	e species to restore	Answ
	native biodiversity	y?			er
					option
					(a,b,c
		T		T :	or d)
	a) Habitat	b) Biologica		d) Conservation	
	fragmentation	invasion	restoration	farming	c
16	Which of the follo	owing best describe	s the concept of popu	ulation density?	Answ
					er
					option
					(a,b,c
	-) T-4-11	1.) N1	f -) D-441:-1	1) M	or d)
	a) Total number of individuals in	/	f c) Rate at which individuals	d) Measure of	
		l .		genetic diversity within a	ь
	a population	unit area o volume	r reproduce		D
		volume		population	
17	What does the "tri	l iple bottom line" re	 fer to in sustainabilit	v?	Answ
- /					er
					option
					(a,b,c
					or d)
	a) Profit, people,	b) Economy	, c) Environment,	d) Product,	
	planet	ecology, equity	ethics,	process, profit	
			efficiency		a
18	Which of the follo	owing assertion and	justification is corre	ect?	
					Answ
			ces are important	for evaluation of	er
	ethnobotanical kn	owledge.			option
		1			(a,b,c
		t also important foi	evaluation of plant	resource utilization	or d)
	pattern.	1.) D . 41. A 1 T) a) A : 4 1 4 D	1) D : 4 1 4 4	
	a) Both A and B are false	· /		d) B is true but not related with A	ь
	are false			related with A	D
		related to each other.	n		
19	Type Ouestions h	otner. ere for matching pa			
19	Type Questions no	ore for matering pa	113.		Answ
	A. Voucher speci	imen : 1	Plant nacting		er
	B. Field collection		Plant pasting Accession Number		option
	C. Vasculum		Number assigned in	field	(a,b,c
			For carrying plant sp		or d)
	D. Herbarium sh	eet 1177	Har carrying plant or	necimen	/ /

	a) A = iii, B=iv, C=I, D=ii	b) A=ii, E C=iv, D=i	B=iii,	c) A=iv, B=iv, C=I, D=ii	d) A=i, B=iv, C=iii, D=ii	b
20			of Ja	in and Rao was pu		Answ
				-		er
						option
						(a,b,c
		Γ			T	or d)
	a)1978	b)1976		c)1979	d)1981	b
21	What is the name	for the reprodu	ctive s	structures of fungi?		Answ
						er
						option
						(a,b,c
						or d)
	a) Hyphae	b) Mycelium		c) Spores	d) Fruiting bodies	d
22	Which of the follo	wing is correct	?			Answ
		_				er
						option
						(a,b,c
					T	or d)
	a)Magnoliaceae	b)Magnoliace		c)Magnoliaceae	d)None of the	a
	is primitive	advanced fam	ily	is nor primitive	statements a-c is	
	family			nor advanced	true	
23	Matah tha fallayyi			family		Amarr
23	Match the followi	ng pairs:				Answ er
	A. L.f.		i. Fat	ther of JD Hooker		option
	B. Hook		ii. So	on of Carolus Linne	eaus	(a,b,c
	C. Robert Brown	1	iii. C	arolus Linnaeus		or d)
	D. L.		iv. R	.Br		
	a). A=ii; B=i;	b). A=iii; E	3=iv;	c). A=iii; B=iv;	d). A=iv; B=ii;	a
	C=iv; D=iii	C=ii; D=i		C=I; D=ii	C=iii; D=iv	
24	Which of the follo	owing statemen	t is tru	ie:		Answ
	A Own	halamain : 4- C	¹ 	ima a familie		er
	A. Oryza sativa is	~ ~		•		option
	B. <i>Oryza sativa</i> is C. <i>Oryza sativa</i> is			•		(a,b,c or d)
	D. Oryza sativa is					or u)
	2. 01 y2u suuvu 18	colonging to N	aoiac	cae faiffify		
	a)A only	b) B only		c) Both A & B	d) Only C& D	С
2.5	WH: 1 0.4 0.5	<u> </u>			12	
25	Which of the follo	owing assertion	and ju	ustification is corre	ct?	Answ
	A. Agrantis E1	o of Duidich I. I.	:	a vymittau lau Cau l	a Linno	er
	A: Assertion: Flor	a of British Ind	ia was	s written by Carolu	s Linnaeus	option
	B: Justification: F	lora of British 1	ndia v	was written JD Hoo	oker	(a,b,c or d)
	a) Both A & B is	b) Only A		c) Only B is	d) None of the	c
1	/			correct	above is correct	•
	correct	correct		COLLECT	above is correct	

26	Which of the follo	owing statemen	t is co	rrect?				Answ er
								option (a,b,c or d)
	a)Balsam belonging to Rutaceae	b)Balsam belonging Balsaminacea	to .e	c)Balsam belonging Commelin		d)Bals belong Orchid	ging to	b
27	Which of the follo		t is tru					Answ er option (a,b,c or d)
	a)Talauma hodgnonii is the accepted name of Magnolia hodgsonii	b)Talauma hodgnonii is t synonym of Magnolia hodgsonii	he	c)Talauma hodgnonii duplicate i of Magnol hodgsonii	is the name	-	e of the ent a-c are	ь
28	Which of the follo							Answ er option (a,b,c or d)
	a) Orchidaceae has gynostemium	b) Orchida has gynostemium	no	b) Orchic has carpels	daceae many	_	one of the ents a-c is	a
29	Match the followi	ng pairs:						Answ er
	A. Amla		i. <i>Ma</i>	agnolia cha	траса]	option
	B. Tita Champac	a		nblica offic				(a,b,c or d)
	C. Sal			ectona gran			-	or d)
	D. Teak			horea robus		I as .		
2.0	a).A=iii; B=iv; C=ii; D=i	C=iv; D=iii	B=i;	c). A=iii; C=I; D=ii	B=iv;	d). A C=iii;		b
30	Which of the following statement is true: A. ICN stand for international code of nomenclature B. ICN stand for international code of nomenclature of algae, fungi and plants C. ICN stand for international code of nomenclature for fungi D. ICN stand for international code of nomenclaturefor algae							Answ er option (a,b,c or d)
	a) A only	b) B only	<u> </u>	c) Both A			y C& D	b
31	Which of the followards A: Assertion: Fie (1976)	ld and Herbari	ium N	1ethod was			ain & Rao	Answ er option (a,b,c or d)
	B: Justification: It a) Both A & B is correct	b) Only A		c) Only correct	B is	/	one of the is correct	b

32	Which of the follo	wing statement	t is co	rrect?			Answ		
		8					er		
							option		
							(a,b,c)		
							or d)		
	a) Liguminosae	b) Ligumin	osae	c) Liguminosae	d) L	iguminosae	a		
	has got vexillum	has got val	lvate	has got twisted	has go	t imbricate			
	aestivation	aestivation		aestivation	aestiva	tion			
33	Which of the follo	wing statement	t is tru	ie?			Answ		
	1. 1			1 1			er		
	A. Magnolia has i			-			option		
	B. Magnolia has f		d carp	pels			(a,b,c		
	C. Magnolia has o			7			or d)		
	D. Magnolia has i		carpe		1) 0 1	G o D			
	a) A only	b) B only		c) Both A & B	d) Only	y C& D	a		
34	Which of the follo	owing assertion	and j	ustification is corre	ct?		Answ		
							er		
	A: Assertion: Zing	giberaceae has l	nard p	etals			option		
							(a,b,c)		
	B: Justification: Z	ingiberaceae ha	s soft	and fleshy petals th	at last f	or few days	or d)		
	only				•				
	a) Both A & B is	b) Only A	is	c) Only B is	/	ne of the	c		
	correct	correct		correct	above	is correct			
35	Which of the follo	owing is correct	?				Answ		
							er		
							option		
							(a,b,c)		
				T			or d)		
	a) Peristome is	b) Peristome	e is	c) Peristome is	/	ristome is	a		
	related to	related	to	related to	related				
	Funaria	Lycopodium		Sphenophyllum	Gymno	osperm			
36	Match the followi	ng paires:					Answ		
						1	er		
	A. Sphagnum		i. Ly	copodiales			option		
	B. Lycopodium		ii. A	quatic			(a,b,c		
	C. Diplazium esc	culentum	iii. N	Mosses			or d)		
	D. Marsilea		iv. P	teridophyte					
	a). A=iii; B=i;	b). A=ii: P	B=iii;	c). A=i; B=iii;	d). A	=i; B=ii;	a		
	C=iv; D=ii	C=i; D=iv	-7	C=ii; D=iv	C=iii;				
37	Which of the follo		t is tru	·			Answ		
							er		
	A. Equisetum is a		•	il			option		
	B. <i>Equisetum</i> is al						(a,b,c		
	_			n plant			or d)		
	C. Equisetum is also called bottle brush plant D. Equisetum is also called grass plant								
	B. Equiscium is a	δ	1						
	a)A only	b) B only		c) Both A & B	d) Onl	y C& D	b		

38	Which of the following assertion and justification is correct?							
						er option		
	A: Assertion: Bryophytes have a thallus structure							
	B: Justification: Bryophytes donot have a thallus structure							
	a) Both A & B is correct	b) Only A correct	is	c) Only B is correct	d) None of the above is correct	b		
39	What is heterospo					Answ		
						er		
						option		
						(a,b,c		
		,				or d)		
	a) Fern with	,	with	c) Fern with	d) Fern without	b		
	same spores size	different sp	ores	only large spore	spores			
		size		size				
40	Which of the follo	wing statement	is tru	ie?		Answ		
						er		
						option		
						(a,b,c		
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1) 0 1 . 11 .			1001 . 11 .	or d)		
	a)Selaginella is	b)Selaginella i		c)Selaginella is	d)Selaginella is a	d		
4.1	a bryophyte	flowering plan	<u>t </u>	a gymnosperm	pteridophyte			
41	Match the followi	ng paires:				Answ er		
	A Delegis de ave							
	A. Paleobotany			tudy of Fossil speci		option (a,b,c		
	B. Paleontology			Study of fossil plant		or d)		
	C. Paleozoology		iii. woi	Study of ecology o	of ancient			
	D. Paleoecology			Study of animal fos				
	· ·	· ·	B=i;	c) A=iii; B=ii;		b		
42	C=I; D=ii	C=iv; D=iii	ia tun	C=I; D=iv	C=iv; D=ii	A maxxx		
42	Which of the follo	owing statement	is tru	ie:		Answ		
	A. <i>Rhynia</i> is the fi	iret vaccular land	l nlar	at		er option		
	B. <i>Pentoxylon</i> is the					(a,b,c		
	C. Nipaniophyllun			*		or d)		
	D. Williamsonia is			_		Of d)		
			wr 161	ia piani				
	a) Only A O D	1.) On 15- A		a) Outre D	4) O. 1 C	1.		
	a) Only A & B	b) Only A		c) Only B	d) Only C	b		
43	Which of the follo	wing assertion	and j	ustification is corre	ct?	Answ		
			-			er		
	A: Assertion: Cald	amite is a fossil	gymi	nosperm		option		
						(a,b,c		
	B: Justification: C	Calamite is a foss	sil pte	eridophytes		or d)		
	a) Only A is	b) Only B	is	c) Both A and B	d) Both A and B is	b		
	correct	correct		is correct	incorrect			

ı	Cupule structure	is related to					Answ er
Ì							option
Ì							(a,b,c
1	a) Lyginopteris	b) Marsilea	c) Antho	onogon	d) Funar	ri a	or d)
Ī	a) Lyginopieris	0) Marsilea	C) Anino	pogon	a) Funar	ıu	a
45	Anabaena is asso	ciated with roots	of				Answ
Ì							er
							option
							(a,b,c
							or d)
	a) Pinus	b) Cycas	c) Cedr	us	d) Gingk	ro .	b
46	Match the follow	ing pairs:					Answ
	A D: 111	1	· c1 · p ·			7	er
	A. Pinus williac	chana	i. Chir Pine				option
	B. Pinus roxburg	ghii	ii. Himalayaı		ne		(a,b,c or d)
	C. Gingko biloba		iii. Maiden h	air fern			
	D. Adiantum		iv. Maiden h	air tree			
	a) A=iv; B=iii; C=ii; D=i	b) A=ii; C=iv; D=iii	B=i; c) A=ii C=i; D=	ii; B=ii; =iv	d) A=iv C=i; D=i		ь
47	Which of the foll	owing statement	is true?				Answ
							er
	A. Oleoresin is al						option
	B. Oleoresin is abundant in Angiosperm						
		_	-				(a,b,c
	C. Oleoresin is al	oundant in Bryop	hytes				(a,b,c or d)
		oundant in Bryop	hytes				
	C. Oleoresin is al	oundant in Bryop	hytes	C	d) Only l	D	
48	C. Oleoresin is al D. Oleoresin is al a) Only A	bundant in Bryop bundant in Pterid	phytes phytes c) Only		d) Only l	D	or d)
48	C. Oleoresin is al D. Oleoresin is al a) Only A Which of the foll	bundant in Bryop bundant in Pterid b)Only B owing genus has	phytes phytes c) Only a Triphasic lif	fe cycle?			or d)
48	C. Oleoresin is al D. Oleoresin is al a) Only A Which of the foll	bundant in Bryop bundant in Pterid	phytes phytes c) Only a Triphasic lif			D Polysipho	or d) a a,b,c,d
48	C. Oleoresin is al D. Oleoresin is al a) Only A Which of the foll (a) Chara Consider the following	b)Only B owing genus has (b) Ectoca s owing fungi.	c) Only a Triphasic lit	fe cycle?	(d) <i>P</i>		or d) a a,b,c,d
	C. Oleoresin is al D. Oleoresin is al a) Only A Which of the foll (a) Chara Consider the follow. Synchytric	b)Only B owing genus has (b) Ectoca s owing fungi.	c) Only a Triphasic lit	fe cycle?	(d) <i>P</i>		a a,b,c,d d
	C. Oleoresin is al D. Oleoresin is al D. Oleoresin is al a) Only A Which of the foll (a) Chara Consider the follo A. Synchytric B. Mucor	b)Only B owing genus has (b) Ectoca s owing fungi.	c) Only a Triphasic lit	fe cycle?	(d) <i>P</i>		a a,b,c,d d
	C. Oleoresin is al D. Oleoresin is al D. Oleoresin is al a) Only A Which of the foll (a) Chara Consider the followard A. Synchytric B. Mucor C. Penicilliu	b)Only B owing genus has (b) Ectoca s owing fungi.	c) Only a Triphasic lit	fe cycle?	(d) <i>P</i>		a a,b,c,d d
	C. Oleoresin is al D. Oleoresin is al D. Oleoresin is al a) Only A Which of the foll (a) Chara Consider the follo A. Synchytric B. Mucor C. Penicilliu D. Peziza	b)Only B owing genus has (b) Ectoca s owing fungi.	c) Only a Triphasic lit rpu (c) ma	fe cycle? Scytone	(d) <i>P</i>		a a,b,c,d d
	C. Oleoresin is al D. Oleoresin is al D. Oleoresin is al a) Only A Which of the foll (a) Chara Consider the followant A. Synchytrical B. Mucor C. Penicilliu D. Peziza Now, identify the	b)Only B owing genus has (b) Ectoca s owing fungi. um see fungi that ma	c) Only a Triphasic lit rpu (c) ma	fe cycle? Scytone ore.	(d) F	Polysipho	a a,b,c,d d a,b,c,d
49	C. Oleoresin is al D. Oleoresin is al D. Oleoresin is al a) Only A Which of the foll (a) Chara Consider the followard A. Synchytric B. Mucor C. Penicillium D. Peziza Now, identify the (a) A and D	b)Only B owing genus has boundant in Pteriod b) Ectocal s owing fungi.	c) Only a Triphasic lity rpu (c) ma y form ascospe C (c)	fe cycle? Scytone ore. C and D	(d) F		a a,b,c,d d a,b,c,d c
	C. Oleoresin is al D. Oleoresin is al D. Oleoresin is al a) Only A Which of the following the follo	b)Only B owing genus has (b) Ectoca s owing fungi. um see fungi that ma (b) B and I owing statements	c) Only a Triphasic lit rpu (c) ma y form ascospe (c) s about viruses	fe cycle? Scytone ore. C and D	(d) F	Polysipho	a a,b,c,d d a,b,c,d
49	C. Oleoresin is al D. Oleoresin is al D. Oleoresin is al a) Only A Which of the foll (a) Chara Consider the followard A. Synchytric B. Mucor C. Penicillium D. Peziza Now, identify the Canada A and D Consider the followard A. They can	b)Only B owing genus has (b) Ectoca s owing fungi. um m ose fungi that ma (b) B and b owing statements infects all forms	c) Only a Triphasic lit rpu (c) ma y form ascospe (c) c about viruses of life.	fe cycle? Scytone ore. C and D	(d) F	Polysipho	a a,b,c,d d a,b,c,d c
49	C. Oleoresin is all D. Oleoresin is all D. Oleoresin is all a) Only A Which of the followard (a) Chara Consider the followard C. Penicillium D. Peziza Now, identify the (a) A and D Consider the followard C. They can B. Viruses and D.	b)Only B owing genus has (b) Ectoca s owing fungi. m ose fungi that ma (b) B and b owing statements infects all forms re difficult target	c) Only a Triphasic litterpu (c) ma y form ascospe (c) s about viruses of life. for chemother	ore. C and D capy.	(d) Finia	Polysipho O only	a a,b,c,d d a,b,c,d c
49	C. Oleoresin is al D. Oleoresin is al D. Oleoresin is al a) Only A Which of the following the consider the following the considering the cons	b)Only B owing genus has (b) Ectocal s owing fungi. um m ose fungi that ma (b) B and I owing statements infects all forms re difficult target RNA viruses are	c) Only a Triphasic lift rpu (c) ma y form ascospe (c) s about viruses of life. for chemother e more in num	ore. C and D capy. ber than I	(d) P nia (d) D	Polysipho O only	a a,b,c,d d a,b,c,d c
49	C. Oleoresin is all D. Oleoresin is all D. Oleoresin is all a) Only A Which of the foll (a) Chara Consider the followard A. Synchytric B. Mucor C. Penicilliu D. Peziza Now, identify the (a) A and D Consider the followard A. They can B. Viruses an C. In nature, Which of the followard properties and consider the followard properties a	b)Only B owing genus has (b) Ectoca s owing fungi. um m ose fungi that ma (b) B and I owing statements infects all forms re difficult target RNA viruses are owing options re	c) Only a Triphasic lit rpu (c) ma y form ascospe (c) s about viruses of life. for chemother e more in number	ore. C and D crapy. ber than I	(d) P nia (d) D NA viruse ements?	O only es.	a a,b,c,d d a,b,c,d c a,b,c,d
49	C. Oleoresin is al D. Oleoresin is al D. Oleoresin is al a) Only A Which of the following the consider the following the considering the cons	b)Only B owing genus has (b) Ectocal s owing fungi. um m ose fungi that ma (b) B and I owing statements infects all forms re difficult target RNA viruses are	c) Only a Triphasic lift rpu (c) ma y form ascospe (c) s about viruses of life. for chemother e more in number presents all co-	ore. C and D capy. ber than I	(d) F nia (d) D NA viruse ements? (d) A	O only es.	a a,b,c,d d a,b,c,d c
49	C. Oleoresin is all D. Oleoresin is all D. Oleoresin is all a) Only A Which of the foll (a) Chara Consider the followard A. Synchytric B. Mucor C. Penicilliu D. Peziza Now, identify the (a) A and D Consider the followard A. They can B. Viruses an C. In nature, Which of the followard properties and consider the followard properties a	b)Only B owing genus has (b) Ectoca s owing fungi. um m ose fungi that ma (b) B and I owing statements infects all forms re difficult target RNA viruses are owing options re	c) Only a Triphasic lit rpu (c) ma y form ascospe (c) s about viruses of life. for chemother e more in number	ore. C and D crapy. ber than I	(d) P nia (d) E ONA viruse ements? (d) A statemen	O only es.	a a,b,c,d d a,b,c,d c a,b,c,d
49	C. Oleoresin is all D. Oleoresin is all D. Oleoresin is all a) Only A Which of the foll (a) Chara Consider the followard A. Synchytric B. Mucor C. Penicilliu D. Peziza Now, identify the (a) A and D Consider the followard A. They can B. Viruses an C. In nature, Which of the followard properties and consider the followard properties a	b)Only B owing genus has (b) Ectoca s owing fungi. um ose fungi that ma (b) B and b owing statements infects all forms re difficult target RNA viruses are owing options re (b) B only	c) Only a Triphasic lit rpu (c) ma y form ascospe (c) s about viruses of life. for chemother e more in numbersents all co- only	ore. C and D crapy. ber than E	(d) P nia (d) D ONA viruse ements? (d) A statement correct.	O only es. All ts are	a a,b,c,d d a,b,c,d c a,b,c,d

A. Intimate sexual contact							
C. Artificial insemination							
D. Breast milk	0						
Which of the following options represents all correct statements							
(a) A and B (b) A, B and (c) A, B and (d)	All the d						
	ements were						
corr							
52 Correct arrangement of cell organelles based on size is:	a,b,c,d						
(a) Nucleus (b) Nucleus > (c) Chloropl (d)	Nucleus > b						
	ochondria >						
	oroplast						
	roxisome						
53 Consider the following statements about microtubules.	a,b,c,d						
A. They are polar molecules.							
B. They have hollow tube like structure.							
C. They help in intracellular motility.							
D. They are made up of tubulin monomers.							
Which of the following options represents all correct statements	s?						
(a) A and B (b) B and D (c) A, B (d)	A, B and c						
only only and C only D or	· · · · · · · · · · · · · · · · · · ·						
54 Principle of independent assortment is NOT applicable in the ca							
(a) Incomple (b) Codomina (c) Epistasis (d)	Cytoplas d						
	Inheritance						
55 ABO blood group is an example of:	a,b,c,d						
	1						
	netrance						
56 Which of the following is correct?	Answ						
	er						
	option						
	(a,b,c						
	or d)						
	uticle is the b						
inner most layer. outer most layer. middle layer. outer	- I						
	em most layer.						
57 Match the following pairs:	Answ						
	er						
	of option						
carbohydrate	(a,b,c						
B. Phloem ii. Mineral and water	er or d						
transportation							
C. Pith iii. Robert Hooke							
D. Cell iv. Araliaceae							
	A=iv; B=ii; a						
	-						
	ii; D=iv						
58 Which of the following statement is true:	Answ						
	er						
A. Secondary wood is found in Angiopteris	option						
B. Secondary wood is found in higher vascular plant	(a,b,c						
B. Secondary wood is found in higher vascular plant							
C. Secondary wood is found in bryophytes	or d)						
	or d)						

	a)A only	b) B only	c) Both A & B	d) Only C& D	b			
59	Which of the follo	wing assertion and j	Lustification is corre	<u> </u> ct?	Answ			
	A: Assertion: Secondary wood is hard B: Justification: Secondary wood is soft							
	B: Justification: S	econdary wood is sol	π		or d)			
	a) Both A & B is correct	correct	c) Only B is correct	d) None of the above is correct	С			
60	Which of the follo	owing statement is co	rrect?		Answ er option (a,b,c or d)			
	a) Vascular tissue of gymnosperm is superior than angiosperm	/	c) Vascular tissue of gymnosperm is similar to angiosperm	d) Gymnosperm has superior than angiosperm	Ь			
61		ribes a diagram that a evels in an ecosystem		of energy through	Answ er option (a,b,c or d)			
	a) Food web	b) Food chain	c) Trophic pyramid	d) Ecological niche	С			
62	What is the term for environment?	or the process by whi	ch organisms adjus	t to changes in their	Answ er option (a,b,c or d)			
	a) Evolution	b) Adaptation	c) Homeostasis	d) Succession	b			
63	What is the prima	ry cause of habitat lo	ss and fragmentation	on?	Answ er option (a,b,c or d)			
	a) Industrial pollution	b) Urbanization and agriculture	c) Conservation efforts	d) Climate change	ь			
64	How does climate change affect biodiversity?							
	a) It reduces habitat loss	b) It promotes species adaptation	c) It disrupts ecosystems and alters habitats	d) It enhances genetic diversity	С			

65	Which term describes the practice of removing trees from forests faster than they can regrow?							
	a) Sustainable forestry	b) Reforestation	c) Afforestation	d) Deforestation	or d) d			
66	Which of the following is NOT a measure to mitigate threats to biodiversity?							
	a) Protected areas establishment b) Sustainable land management establishment c) Wildlife poaching education and awareness programs							
67		owing is NOT a pillar	of sustainable dev	elopment?	Answ er option (a,b,c or d)			
	a) Economic sustainability	b) Social sustainability	c) Environmental sustainability	d) Technological sustainability	d			
68	Which of the following best describes the concept of "intergenerational equity" in sustainable development?							
	a) Ensuring that future generations have access to the same resources and opportunities as the present generation	b) Prioritizing short-term economic gains over long-term environmental consequences	c) Exploiting natural resources without consideration for future consequences	d) Maximizing short-term profits for current shareholders	or d) a			
69	Which of the following is an example of a sustainable practice?							
	a) Clear-cutting forests for timber without replanting quotas b) Overfishing c) Investing in renewable energy sources like solar and wind power c) Investing in renewable energy sources into rivers and oceans							

70	Which term describes the use of resources in a way that meets current needs without compromising future generations?								
	a) Resource exploitation	b) Resource conservation	c) Resource depletion	d) Resource sustainability	b				
71	Which of the following is NOT a measure of central tendency?								
	a) Mean	b) Range	c) Median	d) Mode	b				
72	What is the purpo	l se of a hypothesis tes			Answ er option (a,b,c or d)				
	a) To summarize data	b) To make predictions about future outcomes	c) To determine if there is a significant difference between groups	d) To describe patterns or relationships in data	С				
73	Which statistical t	test is used to compar	re means between t	wo groups?	Answ er option (a,b,c or d)				
	a) Chi-square test	b) T-test	c) Analysis of Variance (ANOVA)	d) Regression analysis	ь				
74	Biological magnification refers to: A The increase in the number of species in a habitat B The concentration of toxins as they move up the food chain C The growth of populations over time D The spread of invasive species								
	a) A & B	b) A	c) B	d) C & D	С				
75	A: Assertion: Sponges (Porifera) do not have true tissues. B: Justification: Sponges have a cellular level of organization.								
1		a) Both A and B b) Both A and B c) A is true, but d) A is false, but B are true, and B is are true, but B is the correct explanation of A.							

explanation of A. 76 Carrying capacity refers to: A) The B) The total C) The D) The rate of immigration and population size that an environment can population population population population population population population population population	Answ er option (a,b,c or d)
A) The B) The total C) The D) The rate of immigration and population size population and population population and population and population and population population population population population	er option (a,b,c or d)
A) The B) The total C) The D) The rate of immigration and population size population rate of a population population population population	option (a,b,c or d)
A) The B) The total C) The D) The rate of maximum biomass of a reproductive immigration and population size population rate of a population population	(a,b,c or d)
maximum population size that an biomass of a population rate of a population population population population in a population	or d)
maximum population size that an biomass of a population rate of a population population population population in a population	
maximum population size that an biomass of a population rate of a population population population population in a population	_
population size population rate of a emigration in a population population	a
that an population population	
environment can	
sustain 77 Which type of growth curve is characterized by a J-shaped curve?	Answ
which type of growth curve is characterized by a 3-shaped curve:	er
	option
	(a,b,c
	or d)
A) Logistic B) Exponential C) Stable D) Declining	b
growth growth growth growth	
78 Find the correct matching pairs:	Answ
	er
	option
transcript	(a,b,c
B Ribosome ii. Molecular machine that helps	or d)
in translation	
C RNA Polymerase iii. The enzyme that synthesizes Protein from an RNA	
D Promoter iv. Site on DNA where RNA	
polymerase binds	
a) A, B, and C b) B and D c) Only D d) All of the	b
above are correct	Ü
79 Find the correct statement (s).	Answ
	er
A. Anticodon has a three-nucleotide sequence on tRNA that pairs with the	option
rRNA	(a,b,c)
B. Introns Coding regions of mRNA transcript	or d)
C. In semiconservative replication, each new DNA molecule consists of one	
old and one newly synthesized strand	
D. Exons are non-coding regions of an RNA transcript that are removed before	
protein synthesis	
a) Only A is b) Only B and D c) Only C is d) All of the	c
correct are correct correct above are correct	Č
80 Type Questions here for assertion and justification	Answ
71 \	er
A: Assertion- Flatworms (Platyhelminthes) have a complete digestive system.	opuon
A: Assertion- Flatworms (Platyhelminthes) have a complete digestive system.	option (a,b,c
A: Assertion- Flatworms (Platyhelminthes) have a complete digestive system. B: Justification- Flatworms have a mouth and an anus for the passage of food.	-
	(a,b,c

	the correct explanation of A.		rect A.					
81	Density-dependent factors that regulate population size include:							
	A) Natural B) Temperature C) Disease D) Sunlight disasters						С	
82	Which term describes the role and position of a species in its environment?							
	A) Habitat	B) Niche		C) Trophic level	D) Succe	ession	b	
83	Find the correct m	natch pairs:					Answ	
	A Biome B Community			Large geographic a ilar climate and veg	getation.		er option (a,b,c or d)	
			-	cies living and intersame area	racting in			
	C Trophic Level		iii.	The position an	_			
	D.N. 1	occupies in a food chain						
	D Niche iv. The role or function of an							
	a) A and C	b) B and D	orga	anism in its enviror c) B, C, and D	d) All	of the	d	
	a) A and C	o) B and D		c) b, c, and b	above	or the	u	
84	Find the incorrect statement (s) A. All chordates have a notochord at some stage in their life cycle. B. Chordates are defined by the presence of a backbone or vertebral column. C. In vertebrates, the notochord is replaced by the vertebral column during development. D. Chordates have a dorsal nerve cord							
	a) Only A b) Only B c) Only B and D d) None of the Above						b	
85	Type Questions here for assertion and justification A: Assertion- Nematodes (roundworms) have a pseudocoelom. B: Justification- A pseudocoelom is a body cavity completely lined with mesoderm.							
	a) Both A and B are true, and B is true, but B is the correct explanation of A. a) Both A and B are true, but B is the correct explanation of A. A. b) Both A and B are true, but B is B is false. B is false. are false							

86	The exoskeleton of	of arthropods is 1	prima	rily composed of:		Answ		
		,		·		or d)		
	A) Cellulose	B) Chitin		C) Calcium	D) Silica	b		
0.7	XXII : 1 C 1	1, 1 1	1	carbonate				
87	Which group of cl	nordates has a h	eart t	hat pumps blood?		A		
						Answ		
						er option		
						(a,b,c		
						or d)		
	A) All chordates	B) C	Only	C) Only	D) Only	b		
		vertebrates	J	cephalochordate	urochordates			
				S				
88	Find the incorrect	matching pair (s):			Answ		
			ı			er		
	ACnidaria			nimals with sting	ing cells	option		
	771 1 1 1 1			ed cnidocytes	• •	(a,b,c		
	BPlatyhelminthe	S		Parasitic worms	with a	or d)		
	C A wth ways a da			ndrical body Animals wi	41			
	CArthropoda	iii.	skeleton and	th an jointed				
				endages	Jointed			
	DMollusca				s, often			
	Bivionasoa			n a shell				
	a) A	b) B		c) C	d) D	b		
89	Find the correct st	atement (s):		1 /	/	Answ		
						er option		
	A. The greenhouse effect is entirely man-made.							
				ances species survi		(a,b,c		
	-			ead to the collapse of	-	or d)		
	_	niche refers to the	e phy	sical location where	e an organism lives,			
	and nothing else.							
	a) Only A	b) B and C		c) Only C	d) Only D	c		
90	Type Questions he		and i		<u>, , , , , , , , , , , , , , , , , , , </u>	Answ		
			,			er		
	A: Assertion- Cnie	darians exhibit r	adial	symmetry.		option		
	B: Justification- Radial symmetry allows organisms to sense th							
	environment from				1) D (1 1 1 5			
	a) Both A and B	/		c) A is true, but	d) Both A and B	a		
	are true, and B is the correct	are true, but I not the cor		B is false.	are false			
	explanation of							
	A.	CAPIGHALION OF	-1.					
91	Which of the follo	owing is NOT a	macr	omolecule?	<u>l</u>	Answ		
		5				er		

						(a,b,c		
		1			T	or d)		
	A) Protein	B) Lipid		C) Glucose	D) DNA	С		
92								
	synthesize it?					Answ		
						er option		
						(a,b,c or d)		
	A) Palmitic acid	B) Oleic a	acid	C) Linoleic acid	D) Stearic acid	c c		
93	Find the correct match pair (s):							
	-					er		
	AGlycolysis			preakdown of gly	_	option		
				1-phosphate for end		(a,b,c		
	BGlycogenesis		_	rocess of convertin	g glucose	or d)		
	GG'; A :1G	1	into pyru		. 1.0. 4			
	CCitric Acid Cy	cie	_	cle that oxidizes ac	•			
			and ATP	generating NADH,	, гарп2,			
	DElectron	Transport		sportation of elect	ron from			
	Chain	Transport		o mitochondria	ion nom			
	a) A and B	b) Only B	_	c) Only C	d) C and D	c		
94	Find the incorrect			<u> </u>	1 /	Answ		
			. ,			er		
	A. The kidneys ar	e responsib	ole for Ure	a production in hur	nans.	option		
	B. The brain uses glucose as its primary energy source.							
					orption of nutrients.	or d)		
	D. The diaphragm	ı ıs a major	muscle in	volved in the proce	ess of breathing.			
	a) A and D	b) Only A		c) B and D	d) Only D	a		
95	Type Questions h			/	, , , , , , , , , , , , , , , , , , ,	Answ		
	71 \ J							
	A: Assertion- Glycolysis occurs in the mitochondria of eukaryotic cells.							
						(a,b,c		
			-		g down glucose to	or d)		
	pyruvate, generati				1) D 1 1 1 -	1		
	a) Both A and B	/			d) Both A and B	d		
	are true, and B is the correct	are true, not the	correct	B is false.	are false			
	explanation of							
	A.	CAPIGHALI	on or 17.					
96		acts as the	final elect	tron acceptor in the	e electron transport	Answ		
	chain?		3100	F 411		er		
						option		
						(a,b,c		
					,	or d)		
	A) NAD+	B) FAD		C) Oxygen	D) Water	C		
97	Find the incorrect	statement	(s)			Answ		
			_			er		
	A. Energy flow in					option		
				heir new environm		(a,b,c or d)		
	C. In a trophic pyramid, energy decreases at each successive trophic level.							

	D. Ecotones are transitional zones between two different ecosystems						
	a) Only D	b) Only	В	c) A and C	d).	A and D	b
98	Type Questions here for assertion and justification A: Assertion- Mollusks have a mantle that secretes the shell. B: Justification- The mantle is a tissue layer that covers the visceral mass in mollusks.						
	a) Both A and B are true, and B is the correct explanation of A.	Both A and B e false	a				
99	In vertebrates, the brain is an extension of which structure?					Answ er option (a,b,c or d)	
	A) Notochord	B) Do	rsal nerve	C) Pharyngeal slits	D)	Endostyle	b
10 0	Find the incorrect match pairs:						Answ er
	APhylum	j	i. The rank just below kingdom				option (a,b,c
	B Order	j	ii. The rank just below family iii. Group of similar families iv. The rank just below order				or d)
	C Class	j					
	D Family	j					
	a) A and B	b) B		c) D	d)	C and D	ь