NEET BIOLOGY

BIODIVERSITY AND CONSERVATION

1.	Island ecosystem is the n	ost vulnerable due to			
1.	a) Small size and small n		b) Large size and large number of species		
	c) Large size only	uniber of species	d) Small size only		
2.	<i>In situ</i> strategies include	·S	ay onnan size only		
	I. National parks				
	II. Wildlife sanctuaries				
	III. Biosphere reserves				
	IV. Sacred forests/Lakes				
	Choose the correct option	n			
	a) I and II	b) II, III and IV	c) I, II and III	d) I, II, III and IV	
3.	Wildlife conservation ain		oj 1, 11 olito 111	ay 1, 11, 111 and 11	
	I. maintaining the ecologi				
		iversity with exotic species	5		
	III. preventing migration	• •			
	IV. maintaining the diver	=			
	_	using the codes given belo	W		
	a) I and II	b) II and III	c) III and IV	d) I and IV	
4.	•	iversity hot spots in the wo	•	,	
	a) 24	b) 12	c) 34	d) 52	
5.	•	s become rare or extinct, th	,	pear along with them are	
	a) Pine	b) Oak	c) Orchids	d) Rhododendrons	
6.	Species which is in dange	er of extinction is			
	a) Endangered	b) Vulnerable	c) Rare	d) Critically endangered	
7.	Pronuba and Yucca exis	ts in mutualistic relationshi	ip in nature. Which of the f	ollowing term describes this	
	situation?				
	a) Pollution		b) Coextinctions		
	c) Alien species invasion		d) Over-exploitation		
8.	Genetic diversity is the m				
		s and their relative abunda		1	
	, , ,	information contained in th	0		
		at community and ecosyste	em levels		
	d) All of the above	_	_		
9.		ng shows maximum genetic			
4.5	a) Rice	b) Maize	c) Mango	d) Groundnut	
10.		a pair of endangered speci		1.	
	a) Garden lizard and Mex		b) Rhesus monkey and sa		
	c) Indian peacock and ca	0	d) Hornbill and Indian ac	conite	
11.	From high latitude to low	v latitude, biodiversity			
	a) Decreases		b) Increases		
10	c) Remains same	1 Cal 1 1	d) First decreases then in		
12.		tion of the habitat and the			
	a) Dachigam national par	rk – Snow leopard	b) Sunderbans –Bengal ti	5	
				Page 1	

	c) Periyar – Elephant	d) Rann of Kutch – Wild a	66	
13	Plants like <i>Aegle marmelos</i> , <i>Ocimum sanctum</i> and			
15.	a) Medicinal plant species	b) Lesser known food plants		
	c) Traditional food crops	d) Sacred species of plants		
14.	Estuaries are considered as nutrient rich and trap	aj bacica species oi plane	5	
	a) River b) Pond	c) Lake	d) Ocean	
15.	Which of the following is an inexhaustible resource?	•	aj o ocan	
	a) Fossil fuel b) Solar energy	c) Coal	d) Petroleum	
16.	Which of the following expanded forms of the follow	•	,	
	a) UNEP- United Nations Environmental Policy			
	b) EPA – Environmental Pollution Agency			
	c) IUCN – International Union for Conservation of Na	ature and Natural Resource	es	
	d) IPCC – International Panel for Climate Change			
17.	One of these is not concerned with wild life conserva-	ation.		
	a) IVF b) IUCN	c) WWF	d) IBWL	
18.	More than 70% of world's freshwater is contained in			
	a) Antarctica	b) Glaciers and mountain	S	
	c) Greenland	d) Polar ice		
19.	Minerals, metals and fossil fuels are which type of re			
	a) Renewable b) Non- renewable	c) Biodegradable	d) Degradable	
20.	Rajaji national park is situated in			
24	a) Tamil Nadu b) Karnataka	c) Uttarakhand	d) Rajasthan	
21.	The percentage of forest cover recommended by the 220% for plains and $(70\%$ for hills			
	a) 33% for plains and 67% for hills	b) 37% for plains and 639		
	c) 20% for plains and 70% for hills	d) 23% for plains and 779	/0 101 111115	
22.	Number of endangered species of angiosperms in In-	dia is		
	a) 487 b) 15,000	c) 5,000	d) 3,000	
23.	An endemic species is the one			
	a) That has been introduced to a new geographic are	ea		
	b) That is found in many different geographic area			
	c) That is found only on islands			
24	d) That is found naturally in just one geographic area		an an acia cl	
24.	Which one of the following possesses a very large nu a) North-East Ghats	-	•	
	c) Western Ghats	b) Andaman Nicobar Island) North-West Ghats	105	
25	Identify the names of two hot spots of biodiversity in	,		
20.	a) Himalayan and Deccan Plateau	b) Western ghats and Nor	th Eastern Himalayas	
	c) Deccan and Western ghats	d) Western ghats and Gar	-	
26.	'Van Mahotsav' was started by	,	0	
	a) K M Munshi b) Sunder Lal Bahuguna	c) Vinoba Bhave	d) J L Nehru	
27.	A taxon, which is facing an extremely high risk of ext	tinction in the wild in imme	ediate future is known as	
	a) Rare b) Exotic	c) Vulnerable	d) Critically endangered	
28.	Three levels of biodiversity are			
	a) Genetic diversity, species diversity and ecological	diversity		
	b) Species diversity, ecological diversity and habitat			
	c) Geographical diversity, genetic diversity and habi	-		
<i></i>	d) Ecological diversity, species diversity and commu	nity diversity		
29.	Wildlife conservation aims at			
	I. Maintaining the ecological process.			

	II. To enrich the wild life diversity with exot	ic species.	
	III. Preventing migration of species.		
	IV. Maintaining the diversity of life.		
	The correct statement are		
	a) I, II b) II, III	c) III, IV	d) I, IV
30.	Biodiversity Act of India was passed by the Pa	-	
	a) 1996 b) 1992	c) 2002	d) 2000
31.	Large woody vines more commonly found in		
		ests c) Alpine forests	d) Temperate forests
32.	The endangered largest living lemur Idri idri		
	a) Madagascar b) Mauritius	c) Sri Lanka	d) India
33.	A historic convention on biological diversity h		
	a) The earth summit b) Montreal protoc	-	d) Janerio convention
34.	Water hyacinth (Eichhornia crassipes) was	introduced in Indian water to re	educe pollution. It is an
	example of		
	a) Disturbance and degradation	b) Coextinctions	
	c) Alien species invasions	d) Over-exploitation	
35.	Biodiversity is affected by		
	a) Latitudinal gradients and species area rela		
	b) Species area relationship and longitudinal	gradients	
	c) Both (a) and (b)		
	d) Latitudinal and longitudinal gradients		
36.	Which of the following statement belongs to a	a stable community?	
	a) Productivity of community should not vary	v too much from year to year	
	b) Community should be resistant to occasion	nal natural and man-made distu	rbances
	c) Community should be resistant to invasion	is by alien species	
	d) All of the above		
37.	About 70% of total global carbon is found in		
	a) Grasslands b) Agro-ecosystem	is c) Oceans	d) Forests
38.	InitiallyA biodiversity hot spots were iden		
	list, bringing the total number of biodiversity		
	regions of accelerated habitat loss. Three of th		nd Sri Lanka, Indo-Burma and
	Himalaya, covers our country's, exceptionally		
	Although all the biodiversity hot spots put tog	-	
	number of species they collectively harbour is		•
	could reduce the ongoing mass extinctions by		
	a) A-25, B-26, C-2, D-30	b) A-25, B-34, C-2, D-30)
	c) A-15, B-20, C-2, D-30	d) None of these	
39.	How many bio-geographical regions are prese		
	a) 3 b) 4	c) 7	d) 10
40.	At what height in Himalayan region of our cou		
	a) At the height of 1000 to 1500 m	b) At the height of 2000	
	c) At the height of 500 to 1000 m	d) At the height of 1000) m to 1200 m
41.	In which part of the biosphere reserves, huma	=	
	a) Transition zone	b) Buffer zone	
	c) Core zone	d) Settlement not allow	
42.	Which of the following is the correct estimation	on about the numbers of nation	al parks, biosphere and the
	wildlife sanctuaries of India		
	a) 158,62,10 b) 58,412,10 Which one of the following is an example of <i>e</i> .	c) 96,412,10	d) 90,14,448

	a) Wildlife sanctuary	b) Seed bank	c) Sacred groves	d) National park
44.	The dolphin found in Chi			
	a) <i>Delphinus</i>	b) Irrawady	c) <i>Sotalia</i>	d) <i>Tursiops</i>
45.	Communities with more	species tend to be more sta	able than those with less sp	ecies. This was confirmed
	by			
	a) Alexander von Humbo	oldt	b) David Tilman	
	c) Paul Ehrlich		d) Edward Wilson	
46.	Some of the nutrient cycl			
	I. Sulphur cycle	II. Phosphorus cycle		
	III. Carbon cycle	IV .Nitrogen cycle		
	Of these, the sedimentary			d) I an d II
47	a) I only	b) II only	c) III only	d) I and II
47.	Wildlife is	any habitat	h) Duodotomu onimala in t	hair natural hahitat
	a) Any living organism in	•	b) Predatory animals in td) Economically important	
48.	c) Any living organisms i	hich one of the following n		in anniais and plants
40.	a) Ranthambhor	b) Sunderbans	c) Gir	d) Jim Corbett
49		f birds in Columbia, located		
т).	a) 2,400	b) 1,400	c) 2,000	d) 2,500
50.	Modern <i>ex situ</i> conserva		cj 2 ,000	a) 2 ,000
001	a) <i>In vitro fertilization</i>		b) Cryopreservation tech	niques
	c) Plants can be propaga	ted using tissue culture	d) All of the above	
	methods	<u>.</u>	.,	
51.	Core zone, buffer zone ar	nd manipulation zone are fo	ound in	
	a) National park	b) Sanctuary	c) Tiger reserve	d) Biosphere reserve
52.	Silent valley is tropical ev	vergreen forest located in		
	a) Kerala	b) Karnataka	c) Maharashtra	d) Orissa
53.	Which one of the following	ng pairs of organisms are e	xotic species introduced in	India?
	a) Ficus religiosa, Lante	ana camara	b) <i>Lantana camara</i> , wat	er hyacinth
	c) Water hyacinth, Prose		d) Nile perch, Ficus relig	iosa
54.		nventional universal sourc		
	a) Wind energy	b) Solar energy	c) Hydrothermal energy	d) Tidal energy
55.		ng is the first national park		
	a) Kanha national park		b) Periyar national park	
F (c) Corbett national park		d) Bandipur national parl	K
56.		ng contributes to social for		
	a) Leucaena leucocepha	u	b) <i>Mangif era indica</i> d) None of the above	
57	c) Jatropha What is true approximat	e percentage of the earth co		
57.	a) 2.5%	b) 3.5%	c) 1.5% (less than 2%)	d) 4.5%
58.		-	at is the main reason of this	
	a) Predation		b) Cutting down of forest	
	c) Destruction of habitat	S	d) Hunting	
59.	•		liversity in tropical areas in	comparison to the
	temperate areas?	2	-	
	I. There are no favourabl	e seasons in tropics		
	II. Less solar energy is av	ailable in tropics		
	III. Rate of extinction is le	-		
	IV. Resource availability			
	Choose the correct option	n		
				•

60	a) I, III and IV	b) I, II, III and IV	c) I, II, III	d) III and IV
60.	Kaziranga is famous for	h) Elenhant	a) Duffallour	d) Dhinaganag
61	a) Wild ass Biodiversity Act of India v	b) Elephant	c) Buffallow	d) Rhinoceros
01.	Biodiversity Act of India v a) 1996	b) 1992	c) 2002	d) 2000
62	-	,	CJ 2002	u) 2000
62.	Loss of biodiversity is cau	-	a) Industrialization	d) All of the above
()	a) Over-population	b) Urbanisation	c) Industrialisation	d) All of the above
03.			rsity than the Eastern Ghats	=
()	a) Species diversity	b) Genetic diversity	c) Ecological diversity	d) None of these
64.	Red list in India complete	=	h) 7. ala si ad anno a f In	. J: _
	a) Botanical survey of Ind		b) Zoological survey of In	lala
	c) Geological survey of In		d) None of the above	
65.	Which of the following is			N J IZ L.
	a) Banning of Akhard Sika	=	b) Breeding of animals in	
	c) Protecting migration o		d) Protecting fishing in B	nitar Kanika
66.	In the species area relation			
	a) Species richness	b) Slope of the line	c) Specific area	d) Special species
67.	The species listed in Red) P	
60	a) Threatened	b) Endangered	c) Rare	d) All of these
68.	Excessive accumulation o	-		
	a) Decrease in species div	versity	b) Increase in species div	•
60	c) Green house effect		d) No effect on species di	versity
69.	The medicinal plant <i>Rauv</i>			
-	a) Opine	b) Reserpine	c) Vinblatin	d) Resprione
70.	What is the sustainable us			
			is to migrate from one wilde	
	-	• •	ies that are listed as endang	
		=	t helps people to protect the	eecosystem
-1	d) The study of the method			
/1.		=	duration of temperature an	id 50 and 250 cm annual
	variation in precipitation,			
70	a) Temperate forest	b) Coniferous forest	c) Tropical forest	d) Grassland
12.	All the following are inclu		-	
70	a) Botanical garden	b) Biosphere reserve	c) National park	d) Sanctuary
/3.	-		region is known as the region	
74	a) Biota	b) Flora	c) Fauna	d) Diversity
74.	Indian rhinoceros are pro	tected in		J
	a) Gir forest		b) Kaziranga national par	
76	c) Bandipur national park	X	d) Ranthambor national	рагк
75.	Simlipal is	ו ית גו		1) 7
76	a) Sanctuary	b) Biosphere reserve	c) National park	d) Zoo
/6.	In soil profile, human is p			
	a) Horizon-O	b) Horizon-A	c) Horizon-B	d) Horizon-C
//.		,	b) of ten species (A-J) in four	
	-	ven within brackets again	st each. Study the table answ	wer the question which
	follows.	and their Dopulation		
	and (in the	and their Population ousands) in the Area		
	Num ber			

	of	А	В	С	D	Е	F	G	Н	Ι	I	
	Habit		2		2	-		ŭ		•	,	
	ats I (11)	2 3	1. 2	0. 52	6	-	3	1. 1	9.0	-	1 0.	
	II	1		0.	0 -	1	1 3	-	8.2	1.	3 1	
	(11)	1 0. 2	-	0. 62	-	1. 5	3 0	-	8.2	1. 1	1 1. 2	
	III (13)	1 1.	0. 9	0. 48	2	1. 4	4	0. 8	8.4	2. 2	4. 1	
	IV (12)	3 3. 2	1 0.	11 .1	4	0. 4	2 3	0. 8	7.3	1 1.	2. 1	
			2		8		3	-		3		
		i are	a ou	it of	l to	IV s			naxii	nur	n sp	ecies diversity?
78	a) II A spec		hace	mag	nr	ono) III ovtij	nctio	n dı	10 tc	c) IV d) I
70.	-				-							, ation characteristics
	b) Lar							-		-	-	
	-	-	-				-					extinction
	d) Pop							-				
79.									-			iical gardens is that
	a) One	e car	ı ob:	serv	e tr	opi	cal j	olan	ts th	ere		b) They allow <i>ex situ</i> conservation of germplasm
	c) The	ey pi	ovi	de th	le n	atu	ral	habi	tat fo	or w	vild l	ife d) They provide a beautiful area for recreation
80.												
	V. By the end of twentieth century, the forest cover in India was reduced to 19.4%.											
						-	-		-			in the year 1988.
				-		-				-		ass or hay in India is about 250 million tonnes.
	VIII.					the	wo	rld'	s pop	oula	tion	lives in arid or semi-arid regions.
	a) I an											b) I, III and IV are not true
01	c) I, II						. 1.1	.1			• • • •	d) III is not true
81.		s the	e tax	on, v	vni	ch is	S 11F	ely	to m	ove	into	endangered category in near future, if conditions prevail as it
	is. a) Vul	nera	able				b	En	dang	er		c) Rare d) Extinct
82.	The di	ivers	sity	of th	e h	abit	ats	ove	r the	tota	al ge	ographical area is called
	a) Alp	ha d	liver	sity			b]	Bet	ta div	vers	ity	c) Gamma diversity d) Delta diversity
83.	The la	rges	st en	dang	ger	ed b	oird	in I	ndia	is		
	a) Vul											b) Flamingo
	c) Gre											d) Great Indian hornbill
84.	Which				vin	g is			-			
~	a) <i>Par</i>						_		ntana			c) <i>Eichhornia</i> d) All of these
85.										aph	ical	areas shows maximum biodiversity in our country?
	a) Sur											b) Eastern ghats and West Bengal
06	c) Eas			-					-		المو	d) Kerala and Punjab
80.	Extinc a) Nat				-	nur	nar	iaci	IVILLE	es is	can	b) Mass extinction
	c) Bac					tion						d) Anthropogenic extinction
87.	-	-						ofac	ricul	tur	al fie	elds is likely to create the problem of
57.	a) Aci	-						-	dity	cui		c) Metal toxicity d) Salinity
88.	-	-	onsh	nip b	etw	veer			-	ric	hnes	and the area for a wide variety of taxa appears as
	a) Stra			-				- r				b) Sigmoid curve
	c) Rec	-			per	bola	ì					d) None of these
89.	IUCN											-
	a) Hał	oitat	loss	5								b) Competition from introduced species

	c) A red data book		d) Over-exploitation	
90.	Susceptibility to extinction	on is due to		
	a) Large body size	b) Small population	5 0 F F	d) All of these
91.		es of Indian medicinal plan		
	a) Podophyllum	b) Ocimum	c) Garlic	d) Nepenthes
92.	Soil formed after leaching	•		
	a) Alluvial	b) Podsol	c) Laterite	d) None of these
93.		species and habitats, why o	conservationists are calling	for an immediate and often
	expensive action?	to the shear of		
	a) Man has brought on cl	-	b) Extinction is an unnat	_
	act	ly financially if, we did not	a) Bloalversity is benefic	tal to numans
94		doed their commitment to a	chieve reduced rate of hig	diversity loss by 2010 in the
74.		able development held in 2		
	a) 180	b) 200	c) 190	d) 210
95.	-	at the junction of territori	-	2
201	a) Bottle neck effect	b) Edge effect	c) Junction effect	d) Pasteur effect
96.		ng has maximum genetic di	,,	,
	a) Teak	b) Mango	c) Wheat	d) Tea
97.	The wildlife Protection A	, ,		
	a) 1972	b) 1981	c) 1986	d) 1991
98.	Which of the following is	not an objective of conven	tion on biodiversity?	
	a) Sustainable use of bio	diversity		
	b) Conservation of biodiv	versity		
	c) Selective hunting of da	angerous and threatening s	pecies	
		ring of profits arising out o		
99.		method, several grasses are		-
	a) Contour farming	b) Terrace farming	c) Tillage	d) Crop rotation
100	. Largest tiger population			
	a) Sunderban national pa		b) Corbett national park	
101	c) Ranthambhor nationa	-	d) Kanha national park	:2
101	a) Reptiles	tes comprises the highest n b) Birds	c) Mammals	d) Fishes
102		the category of by Wild		•
102	a) Rare species	b) Endangered species	c) Endemic species	d) Vulnerable species
103	, <u>.</u>	Aay, what is total number o	, 1	
105	a) 3 million	b) 5 million	c) 7 million	d) 9 million
104		ship is a straight line descr		
	-	р		
	a) $\log S = \frac{\log C}{\log A}$		b) $Z \log A = \frac{\log C}{\log S}$	
	c) $\log S = \log C + Z \log A$	4	d) $\log S = \log C - Z \log A$	
105	. In India, hot spot area is		C C	
	a) Eastern Himalaya	b) Tropical Andes	c) Madagascar	d) Meso –America
106	. Hangul Project was starte	ed by government to save h	angul (<i>Cernus hanglu</i>) in	1970. The sanctuary where
	it is started is			
	a) National Chambal san	ctuary	b) Dachigam sanctuary	
	c) Corbett national park		d) Bandipur national par	'n
107		explains the importance of		
	a) Species in an ecosyste		b) Birds in an ecosystem	
	c) Fishes in a pond ecosy	vstem	d) None of the above	
				D

108. The term 'Alpha diversity' refers to			
a) Genetic diversity	b) Community diversity		
c) Species diversity	d) Diversity among the plants		
109. Which endangered animal is the source of the world the Shahtoosh?	l's finest, lightest, warmest	t, and most expensive wool-	
a) Kashmiri goat b) Chiru	c) Nilgai	d) Cheetal	
110. Which one is an endangered species?			
a) <i>Cuscuta</i> b) <i>Acacia nilotica</i>	c) Nepenthes	d) Both (b) and (c)	
111. Land mass occupied by forest is			
a) 40% b) 22%	c) 30%	d) 17%	
112. The greatest threat to genetic diversity in agricultur	al crops is		
a) Extensive use of insecticides and pesticides	b) Extensive mixed crop	ping	
c) Introduction of high yielding varieties	d) Extensive use of fertil	izers	
113. Which of the following species are restricted to an a	rea?		
a) Sibling species b) Endemic species	c) Allopatric species	d) Sympatric species	
114. More than 25% of the drugs are derived from the pl	ants. What benefits does t	his described?	
a) Aesthetic value	b) Ethical value		
c) Indirect economic value	d) Direct economic value	2	
115. Which of the following is conserved by <i>ex situ</i> conserved by <i></i>	-		
a) All animals	b) All plants		
c) Threatened animals and plants	d) None of the above		
116. Soil erosion is prevented by	,		
a) Deforestation	b) Afforestation		
c) Reduction of CFCs production	d) Use of CNG in all trans	sports	
117. Many species like steller's sea cow passenger pigeor		-	
the following describes this situation?			
a) Over-exploitation by humans	b) Pollution		
c) Habitat loss	d) Competition from int	roduced species	
118. The number of species facing the threat of extinction	· ·		
a) 14,500 b) 14,000	c) 15,000	d) 15,500	
119. In your opinion, which is the most effective way to c	•	•	
a) By tissue culture method	b) By creating biosphere		
c) By creating botanical garden	d) By developing seed ba		
120. Habitat loss and fragmentation, over exploitation, al			
a) Population explosion b) Migration	c) Biodiversity loss	d) Pollution	
121. The medicinal plant, <i>Rauwolf ia vomitoria</i> , growing	, ,	-	
potency and concentration of the chemical (reserping			
a) Species diversity b) Ecological diversity		d) None of them	
122. Conservation in natural habitat is	-)		
a) In situ b) ex situ	c) Zoo	d) Botanic garden	
123. The animal, extincted from India is	0) 200		
a) Lion b) Cheetah	c) Deer	d) Peacock	
124. For frugivorous birds and mammals in the tropical f have the value of	•	•	
a) 1.15 b) 1.5	c) 1.05	d) 1.005	
125. If $\log A = 4$, $Z = 0.3$ and $\log C = 0.8$, find the value of	-	uj 1.005	
a) 3.76 b) 100	c) 4.24	d) 2	
126. Siberian cranes are regular visitors of	CJ 7.27	uj 2	
a) Bharatpur sanctuary, Rajasthan	h) Lalbach Rangalury		
c) Vedanthgol sanctuary, Tamil Nadu	b) Lalbagh, Bangaluru d) Jim Corbett national park, Uttarakhand		

127. <i>Ex situ</i> strategies	includes		
I. Zoos	_		
II. Seed/pollen bar			
III. Gene bank and			
IV. Botanical garde			
Choose the correct	•		
a) II, III and IV	b) I, II and III	c) I, II and IV	d) I, II, III and IV
128. The Periyar sanctu	5		
a) Kerala	b) Tamil Nadu	c) Karnataka	d) Andhra Pradesh
129. Manas sanctuary is	s located at		
a) Rajasthan	b) Asom	c) Bihar	d) Gujarat
130. Which of the follow	ving supports a dense populat	ion of plankton and littor	al vegetation?
a) Oligotrophic	b) Eutrophic	c) Lithotrophic	d) Agroecotrophic
131. What is the main c	ause for the extinction of som	e species in tropical forest	t?
a) Deforestation	b) Afforestation	c) Pollution	d) Soil erosion
132. Given below are pi	e diagrams I, II and III related	to the proportionate num	ber of species of major taxa of
	ebrates and plants respective	ly. Critically study and fill	in the blanks A, B, C and D
Other animal groups Crustaceans	Fishes		
A	Birds		
Insects -			
I. Invertebrates	II. Vertebrates		
Mosses	Ferns and allies		
c			
Algae	Lichens . Plants		
a) A-Molluscs, B-A	mphibians, C-Angiosperms, D-	-Gymnosperms	
-	mphibians, C-Fungi, D-Angios		
	phibians, C-Fungi, D-Angiospe		
	Amphibians, C-Fungi, D-Angio		
	ansported by wind is known	-	
a) Colluvial soil	b) Eolian soil	c) Alluvial soil	d) Glacial soil
134. Ranthambor natio	,	·) · · · · · ·	
a) Asom	b) Jharkhand	c) Uttarakhand	d) Rajasthan
,	ving pairs of an animal and a p		
	<i>barica</i> and red panda	b) Tamarind and rhe	_
c) <i>Cinchona</i> and le	-	d) Banyan and black	-
	vention on the biodiversity ca		Juck
a) 1993	b) 1992	c) 1994	d) 1995
-	,	,	ne following from the given list
-	ces like photosynthesis	ing biodiversity includes u	
	icts like dyes and lubricants		
	g flowers in full bloom		
	-	clz	
	leasure of walking through thi	UK	
	and construction material		
	dicinal importance		
Choose the correct	•		ייז ווו דרב
a) I, II, III	b) II, III, VI	c) IV, V, VI	d) I, III, VI

		too alaan daalaa ahaa ku to	
138. The measure of the variety	•	•	
	b) Genetic diversity	c) Species diversity	d) Ecological diversity
139. Chipko movement was laur			
	b) Forests	c) Livestock	d) Wet lands
140. Chipko movement is relate		a) () dama	d) Miana
	b) Bahuhuna	c) Odum	d) Misra
141. The shifting cultivation me			d) Conial formation
a) Industrial forestry 142. Which of the following is ex	b) Agroforestry	c) Commercial forestry	d) Social forestry
))))	b) Water energy	c) Fossil fuel	d) Solar anargy
143. Sanjay Gandhi Biological Pa	, .	cj rossii iuei	d) Solar energy
	b) Kanpur	c) Delhi	d) Bangaluru
144. The country whose tropica			
	b) South America	c) India	d) England
145. The number of species per		cj mula	u) Eligialiu
· · ·	b) Species evenness	c) Species equitability	d) Species diversity
146. Which of the following is co	· ·	c) species equitability	u) species unversity
I. Alpha diversity – Number		itat	
II. Genetic diversity – Varia			
III. Beta diversity – Diversit	-	=	
IV. Species diversity – Prod		_	
	b) I and II	c) I, II, III and IV	d) I, II and IV
147. According to IUCN red list,	•		
a) Vulnerable species		b) Critically endangered	species
c) Extinct species		d) Endangered species	
148. Most of the endangered spe	ecies are the victims of		
a) Competition with introd		b) Habitat destruction	
c) Over-hunting		d) Acid rain	
149. The part of earth in which l	life exists, is known as	5	
-	b) Biosphere	c) Atmosphere	d) Hydrosphere
150. According to the IUCN 2004		, .	
_	b) 2 million	c) 1.5 million	d) 1 million
151. Which of these is an <i>in situ</i>	method of conservation?		-
a) National park	b) Botanical garden	c) Tissue culture	d) Genetic engineering
152. Identify the correct matche	ed pair.		
a) Gir forest – Rhino		b) Kaziranga – Elephant	
c) Corbett park – Aves		d) Rann of Kutch- Wild as	SS
153. Biosphere reserves are diff	ferent from national park	as	
a) Plants and animals are p reserves	protected in biosphere	b) Human are integral pa	rt of biosphere reserves
c) Humans are not involved	d in biosphere reserves	d) None of above	
154. Biosphere reserve program	-	,	
	b) 1984	c) 1982	d) 1988
155. Deforestation causes	-	-	-
	b) Noise pollution	c) Soil erosion	d) None of these
156. Lime is added to the soil w	, ,	-	-
	b) Salty	c) Alkaline	d) Acidic
157. Rivet popper hypothesis as parts together. Here <i>A</i> and	ssumes theA to be an		
a) A-species; B-ecosystem		b) A-ecosystem; B-specie	S
, <u>,</u> ,,		, , , _F	
			D 2 7 0 10

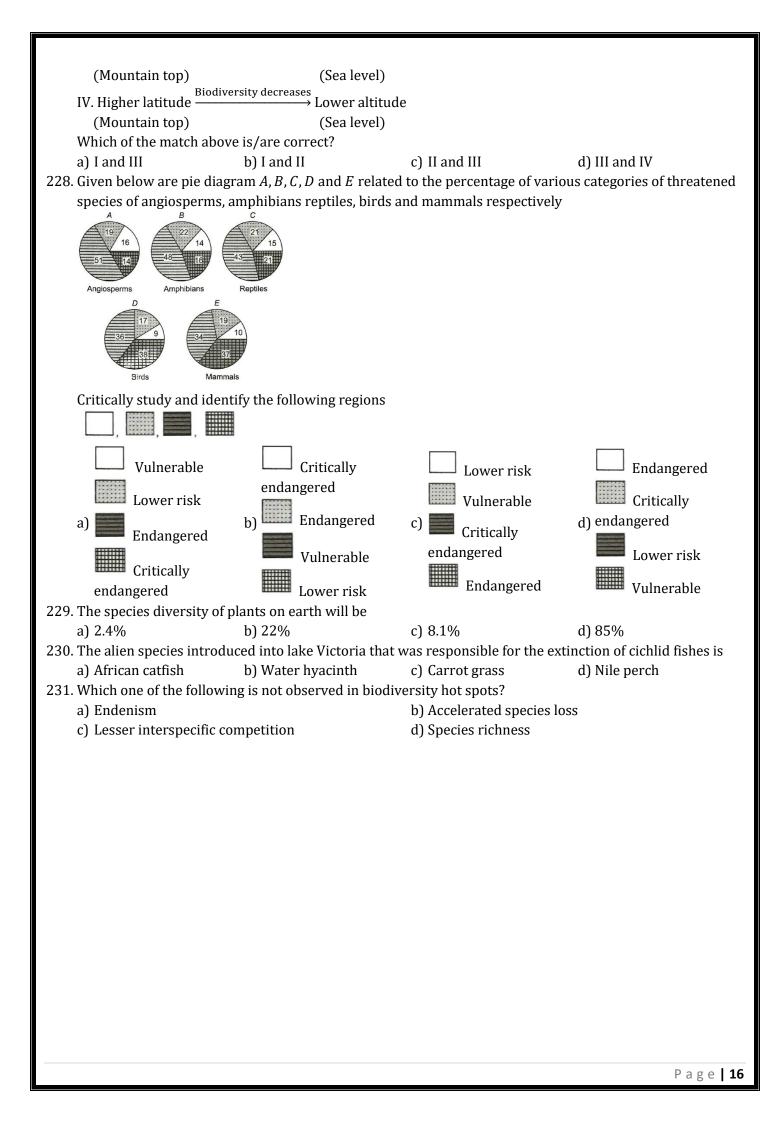
c) A-species; B-commun		d) A-community; B-spe	cies		
158. The total number of hot					
a) 29	b) 25	c) 39	d) 34		
159. Which of the following s		ut Amazon rainforest?			
I. They called lungs of th	-				
	bly millions of the species				
		merica and has highest bio	•		
	and cleared for cultivating	soya-beans or for the conv	ersion to grasslands for		
raising beef cattle					
Choose the correct optic					
a) II, III and IV	b) I, II and III	c) I and II	d) I, II, III and IV		
160. Disappearance of dionos	saurs and a number of othe	-			
a) Natural extinction		b) Anthropogenic extin	iction		
c) K-T boundary	:	d) Extinction vertex			
161. Nehru Zoological Park is		a) Channai	d) Museure		
a) Vishakhapattnam	b) Hyderabad	c) Chennai	d) Mysore		
162. Which of the following is	s not done in a wildlife san	-			
a) Fauna is conservedc) Soil and flora is utilized	od	b) Flora is conservedd) Hunting is prohibited	d		
163. A keystone species is the		uj munung is promote	u		
a) Causes other speciesb) Exerts a strong influe					
c) Has a weak influence	=				
-	od of extinction than a non-	-keystone species			
164. The reasons behind con			which includes?		
I. Broadly utilitarian II.		- Broupen into categories, (
•	. Ethical utilitarian				
Choose the correct optic					
a) I, II, III and IV	b) II, III and IV	c) I, II and IV	d) I, III and IV		
165. Which one is not the ren	-		, ,		
a) Tidal energy	b) Wind energy	c) Fossil fuel	d) Solar energy		
166. Hoolock gibbon (India's	,	-	, 0,		
a) Kaziranga bird sanctu		b) Hazaribagh national	park		
c) Corbett national park		d) Gir national park	-		
		<i>,</i>	with the local communities for		
-	g forests. The concept is				
a) Forest research instit	•	b) Panel of local comm	unities for forest management		
c) Joint forest managem	ent	d) Jhum cultivation	d) Jhum cultivation		
168. If we remove half of the		risis that will occur			
a) Many species would h	pecome extinct				
b) Population, pollution	and ecological imbalance	will rise			
c) Energy crisis will con	nmence				
d) The remaining forest	will correct the imbalance	<u>,</u>			
169. Sacred grooves in India	are related with				
a) Cultural tradition					
	chreatened species are pro				
	only artificial animal breed	ling is allowed			
d) Forest patches aroun					
170. Which of the following s	hows maximum, greater a	nd minimum diversity?			
А					

Animals Species Members		
Bird I 1		
Bird II 1		
Bird III 4		
В		
Animals Species Members		
Bird I 2		
Bird II 2		
Mammal III 2		
С		
Animals Species Members		
Bird I 2		
Mammal II 2		
Insect III 2		
a) A-Minimum diversity, B-Greater diversity, C-Max	-	
b) A-Maximum diversity, B-Greater diversity, C-Min	-	
c) A-Maximum diversity, B-Maximum diversity, C-G	•	
d) A-Minimum diversity, B-Maximum diversity, C-G	-	
171. One of the <i>ex situ</i> conservation method for endange	-	
a) Wildlife sanctuaries b) Biosphere reserves	c) Cryopreservation	d) National parks
172. Conservation of hot spots are best described as		
a) Islands that are experiencing high rates of extinc		
b) Areas where native species are being replaced w	=	
c) Areas where the people are active supporters of		
d) Areas with the large members of endemic species	s that are disappearing rap	idly
173. If the Bengal tiger becomes extinct		
a) Hyenas and wolves will become scarce		
b) The wild areas will be safe for man and domestic	animals	
c) Its gene pool will be lost forever		
d) The populations of beautiful animals like deers w	vill get stabilized	
174. In tropics, rate of extinction is		
a) High b) Moderate	c) Low	d) Negligible
175. The least porous soil among the following is a		
a) Loamy soil b) Silty soil	c) Clayey soil	d) Peaty soil
176. Soil conservation is a practice, in which soil		
a) Is protected from being carried away by wind an	d water.	
b) Is well aerated		
c) Fertility is enhanced		
d) Erosion is allowed		
d) Erosion is allowed 177. The diversity of organisms sharing the same habitat	t or community is termed a	IS
177. The diversity of organisms sharing the same habitat		
177. The diversity of organisms sharing the same habitata) Gammab) Delta	c) Beta	as d) Alpha
 177. The diversity of organisms sharing the same habitates a) Gamma b) Delta 178. The world biodiversity day is celebrated annually or the same habitates and the same habitates an	c) Beta n	d) Alpha
 177. The diversity of organisms sharing the same habitates a) Gamma b) Delta 178. The world biodiversity day is celebrated annually of a) 5th June b) 29th December 	c) Beta	
 177. The diversity of organisms sharing the same habitate a) Gamma b) Delta 178. The world biodiversity day is celebrated annually of a) 5th June b) 29th December 179. Which of the following is not properly matched? 	c) Beta n c) 22 nd April	d) Alpha d) 16 th September
 177. The diversity of organisms sharing the same habitat a) Gamma b) Delta 178. The world biodiversity day is celebrated annually of a) 5th June b) 29th December 179. Which of the following is not properly matched? a) Formaldehyde – Carcinogenic 	c) Beta n c) 22 nd April b) Sulphur dioxide – Res	d) Alpha d) 16 th September piratory problems
 177. The diversity of organisms sharing the same habitate a) Gamma b) Delta 178. The world biodiversity day is celebrated annually of a) 5th June b) 29th December 179. Which of the following is not properly matched? a) Formaldehyde – Carcinogenic c) Nitrogen oxide – Brown air 	c) Beta n c) 22 nd April	d) Alpha d) 16 th September piratory problems
 177. The diversity of organisms sharing the same habitat a) Gamma b) Delta 178. The world biodiversity day is celebrated annually of a) 5th June b) 29th December 179. Which of the following is not properly matched? a) Formaldehyde – Carcinogenic c) Nitrogen oxide – Brown air 180. Contour farming is usually employed in 	 c) Beta n c) 22nd April b) Sulphur dioxide – Res d) Mean annual tempera 	d) Alpha d) 16 th September piratory problems ture of earth - 25°C
 177. The diversity of organisms sharing the same habitate a) Gamma b) Delta 178. The world biodiversity day is celebrated annually of a) 5th June b) 29th December 179. Which of the following is not properly matched? a) Formaldehyde – Carcinogenic c) Nitrogen oxide – Brown air 	c) Beta n c) 22 nd April b) Sulphur dioxide – Res	d) Alpha d) 16 th September piratory problems

a) Coal b) Petroleum c)) Minerals	d) Forest
182. Which of the following rain forest is home to more than		
birds, 427 of mammals, 427 of amphibians, 378 of rept) Arctic tundra	
	d) Temperate	
183. India has nearly varieties of plants		1) 2F 000
) 45,000	d) 35,000
184. India comprises of global species diversitya) 22%b) 8.1%c)) 70%	d) 5.1%
185. Which of the following statement are true?	J 70%	uj 5.1%
I. Species diversity provides stability to the ecosystem		
II. Communities with more species tends to be more sta	able than those with less	snecies
III. Ecosystem with higher biodiversity are more produ		
IV. Biodiversity is not essential for the maintenance and		with lower bloarverbicy
Choose the correct option		
-) II, III and IV	d) I, II, III and IV
186. Biosphere reserves differ from national parks and wild		2 · · ·
a) Human beings are not allowed to enter		
b) People are an integral part of the system		
c) Plants are paid greater attention than the animals		
d) Living organisms are brought from all over the work	d and preserved for poste	erity
187. India has more than genetically different strains o	of rice.	
Complete the given statement with reference to NCERT	Γ textbook	
a) 1000 b) 50000 c)) 20000	d) 25000
188. Plant for which India is secondary centre for domestica	ation is	
a) Tobacco b) Rice c) Potato	d) Maize
189. The first biosphere reserve established in India for con	serving the gene pool of f	lora and fauna and the life
style of tribals is		
) Nands Devi biosphere r	
	l) Great Nicobar biospher	e reserve
190. Which of the following species is restricted to a specific		
) Sympatric species	d) Endemic species
191. Which of the following is now called World Conservation		N
) EPA	d) UNEP
192. Which animal is the symbol of WWF?		N **** - 1
, , , , , , , , , , , , , , , , , , , ,	· ·	d) White bear
193. If any extinction of a mutualistic pollinator takes place,	, what would be its effect	on the plants where it
pollinates?		······································
	•	itute pollinator is available
	l) None of the above	
194. The species diversity of animals on earth is) 77 0%	d) 550%
) 22%	d) 55%
195A diversity is a species diversity in a given commun	inty andD diversity is	present in ranges of
communities over a total geographical area Here A and B refers to		
) A-alpha; B-delta	d) A-delta; B-beta
196. Which one of the following is non-renewable exhaustib		uj A-ucita, D-Dela
_) Soil fertility	d) Minerals
197. The term 'biodiversity' was given by	j oon ier unity	aj mineralo
) Edward Wilson	
-	l) Paul Ehrlich	
· / - · · · · · · · · · · · · · · · · ·	, <u></u>	Page 13

100 The energies which is	ing to hogoma antinat days	to look of meanor same	ld be called
198. The species, which is go			
a) Rare	b) Endangered	c) Vulnerable	d) Extinct
199. Diversity index commo a) γ-index diversity	b) Shannon index		d) & index diversity
200. Extinction vertex includ	,	c) α - index diversity	d) β- index diversity
	162	h) Domographic factor	
a) Genetic factors		b) Demographic factord) None of these	5
c) Both (a) and (b)	ia naananaihla fan hia diwan	,	
201. Which of the following	=	-	
a) Habitat loss and frag	mentation	b) Alien species invasion	DIIS
c) Coextinctions	humathaaid ayaaasta that t	d) All of the above	anland wings where the flight
-		omised depending upon wi	oplane wings where the flight
, . ,	may of may not be compre		
a) Gaia hypothesis		b) Gause-exclusion hyp	
c) Qudum's hypothesis	fuuntan nanaamuntian in ta s	d) Rivet popper hypoth	liesis
203. The greatest problem o			
a) Precipitation	b) Run-off water	c) Groundwater	d) evaporation
204. Dudhwa national park i		a) Uttan Dandaah	d) Iline a shal Dua da sh
a) Orissa	b) Gujarat	c) Uttar Pardesh	d) Himachal Pradesh
205. Which of the following			
a) Basin listing	b) Terracing	c) Dry farming	d) Mulching
-	r country considered as the	e not spot of blodiversity a	nd regarded as the 'Cradle of
Speciation'.			
a) Western ghats	b) North East	, ,	d) Deccan plateau
207. The name of Smt. Thim		ne	
a) Planting and conserv			
b) Agitations against hy	droelectric projects		
c) 'Appiko' movement		1.	
	a and flora of the western		.]
208. The reflectivity percent	•	.	
a) Tornado	b) Albedo	c) Refraction	d) Reradiation
209. About 1000 different va			
a) Teak	b) Mango	c) Wheat	d) Tea
210. A species area relation			
a) Examine how humar			
-	of plant species only in a	-	
-	r of species extinction resu	lting from the habitat dest	ruction
d) None of the above			
211. The impacts of loss of b			
	environmental perturbati	on	
II. decrease in plant pro			1 1 . 1
-		ke water use, pest/disease	cycle, plants productivity
IV. Increase in plant pro			
Choose the correct opti			
a) I and II	b) I and IV	c) I and III	d) I, II and III
212. Endemic plants are tho			
a) Cosmopolitan in dist		b) Restricted to grow o	over certain areas
c) Found in Arctic regio		d) Gregarious in habit	
213. Amongst animals, insec			
a) Less than 70%	b) Equal to 70%	c) More than 70%	d) None of these
214. World summit on susta	illable development was h	eiu in	
			Page 14

215. The state of Gujarat has river, desert, forest and lake ecosystems, thus exhibiting a diversity of life. Which measure do you use to denote total diversity in such a case? a) a (Alpha) b) β(Beta) c) Y(Gamma) d) δ(Delta) 216. Eurythermal animals and plants are those which a) Can tolerate only a small variation in temperature b) Can tolerate any change in temperature d) Arc affected by temperature d) Arc affected by temperature a) Poles to equator b) Equator to poles c) Both (a) and (b) d) None of these 218. Which of the following estimation is correct for the endemic biodiversity of India? a) Poles to equator b) Equator to poles c) Both (a) and (b) d) None of these 218. Which of the following estimation is correct for the endemic biodiversity of India? a) Polewering plants 10%, mammals 15%, reptiles 33%, amphibian 10% and fresh water fish 53% b) Flowering plants 33%, mammals 10%, reptiles 36%, amphibians 60% and fresh water fish 53% 11. Mich also and y of world's land area a) 8.1% b) 2.4% c) 5.1% d) 22% 220. The factor which is responsible for the replacement of existing species with the better adapted species due to alternate evolution, change in environmental conditions, predators and diseases i/are a) Genetic factors b) Demographic factors c) Biodiver	a) USA b) South Africa	c) South Korea	d) UK
a) α(Alpha) b) β(Beta) c) γ(Gamma) d) δ(Dela) 216. Eurythermal animals and plats are those which a) Can tolerate only a small variation in temperature b) Can tolerate large variation in temperature c) Can not tolerate any change in temperature c) Can tolerate large variation in temperature d) Are affected by temperature 217. Biodiversity increases from a) Poles to equator b) Equator to poles c) Both (a) and (b) d) None of these 218. Which of the following estimation is correct for the endemic biodiversity of India? a) Plowering plants 10%, mammals 53%, reptiles 33%, amphibians 33% and fresh water fish 33% c) Flowering plants 10%, mammals 15%, reptiles 53%, amphibians 30% and fresh water fish 33% d) Plowering plants 30% on mortel's land area a) 8.1% b) 2.4% c) 5.1% d) 22% 220. The factor which is responsible for the replacement of existing species with the better adapted species due to alternate evolution, change in environmental conditions, predators and diseases is /are a) Genetic factors b) Demographic factors a) Genetic factors b) Demographic factors c) Both (a) and (b) i None of these 221. The term The Evil Quartet' is related with the major causes of o Hose j Are oplation explosion b) Forest loss c) Both (a) and (b)	215. The state of Gujarat has river, desert, forest and lak	e ecosystems, thus exihibit	iting a diversity of life. Which
216. Eurythermal animals and plants are those which a) Can tolerate any variation in temperature b) Can tolerate large variation in temperature c) Can not tolerate any variation in temperature d) Are affected by temperature 217. Biodiversity increases from a) Poles to equator b) Equator to poles c) Both (a) and (b) d) None of these 218. Which of the following estimation is correct for the endemic biodiversity of India? a) Flowering plants 10%, mammals 53%, reptiles 10%, amphibians 36% and fresh water fish 53% b) Flowering plants 36%, mammals 15%, reptiles 53%, amphibians 36% and fresh water fish 33% c) Flowering plants 36%, mammals 10%, reptiles 53%, amphibians 60% and fresh water fish 53% 219. India has only of world's land area a) 8.1% b) 2.4% c) 5.1% d) 22% 220. The factor which is responsible for the replacement of existing species with the better adapted species due to alternate evolution, change in environmental conditions, predators and diseases is/are a) Genetic factors b) Demographic factors c) Both (a) and (b) d) None of these 221. The term "The Evil Quarter' is related with the major causes of a) Population explosion a) Population explosion b) Forest loss c) Biodiversity loss d) Air pollution	measure do you use to denote total diversity in suc	h a case?	
a) Can tolerate only a small variation in temperature b) Can tolerate large variation in temperature c) Can not tolerate any change in temperature d) Are affected by temperature 217. Biodiversity increases from a) Poles to equator b) Equator to poles c) Both (a) and (b) d) None of these 218. Which of the following estimation is correct for the endemic biodiversity of India? a) Flowering plants 10%, mammals 60%, reptiles 33%, amphibians 36% and fresh water fish 53% b) Flowering plants 10%, mammals 53%, reptiles 53%, amphibians 36% and fresh water fish 33% c) Flowering plants 06%, mammals 15%, reptiles 53%, amphibians 36% and fresh water fish 33% d) Flowering plants 33%, mammals 10%, reptiles 36%, amphibians 60% and fresh water fish 53% 219. India has only of world's land area a) 8.1% b) 2.4% c) 5.1% d) 22% 220. The factor which is responsible for the replacement of existing species with the better adapted species due to alternate evolution, change in environmental conditions, predators and disease: is/are a) 6.0 (a) and (b) d) None of these 221. The term The Evil Quarter' is related with the major causes of a) Population explosion b) Forest loss c) Biodiversity loss d) Air pollution 222. The expanded form of IUCN is a) International Union of Change in Climate Conservation and Natural Resources b) International Union of Change in Climate and Natural Resources c) International Union of Change in Climate and Natural Resources 223. According to the species-area relation concept a) Most species within any given area are endemic b) The larger the area, the greater the extinction rate c) Larger species requires larger habitat area than do the smaller species d) The number of species in area increases with the size of that area 224. What is the exact latitudinal range for tropical regions, which harbour more species than temperate or polar areas? a) 71*N to 71*S b) 23.5*S to 71*N c) 23.5*N to 23.5*S d) 71*N to 23.5*S 225. Gir sanctuary is mainly for a) 359 vertebrates, 359 invertebrat	a) α (Alpha) b) β (Beta)	c) γ(Gamma)	d) δ(Delta)
b) Can tolerate large variation in temperature c) Can not tolerate any change in temperature d) Are affected by temperature 217. Biodiversity increases from a) Poles to equator b) B (quator to poles c) Both (a) and (b) d) None of these 218. Which of the following estimation is correct for the endemic biodiversity of India? a) Flowering plants 10%, mammals 53%, reptiles 33%, amphibians 36% and fresh water fish 53% b) Plowering plants 60%, mammals 15%, reptiles 35%, amphibians 33% and fresh water fish 33% d) Flowering plants 36%, mammals 15%, reptiles 36%, amphibians 33% and fresh water fish 33% d) Flowering plants 36%, mammals 15%, reptiles 36%, amphibians 60% and fresh water fish 33% d) Flowering plants 34%, mammals 10%, reptiles 36%, amphibians 60% and fresh water fish 33% d) Flowering plants 34%, mammals 10%, reptiles 36%, amphibians 60% and fresh water fish 33% d) Flowering plants 60%, narmals 57%, reptiles 36%, amphibians 60% and fresh water fish 33% d) Flowering plants 60%, marmals 15%, reptiles 36%, amphibians 60% and fresh water fish 33% d) Flowering plants 60%, marmals 10%, reptiles 36%, amphibians 60% and fresh water fish 33% d) Flowering plants 60% is and area a) 8.1% b) 2.4% c) 5.1% d) 22% 220. The factor which is responsible for the replacement of existing species with the better adapted species due to alternate evolution, change in environmental conditions, predators and diseases is/are a) Genetic factors b) Denorganphic factors c) Both (a) and (b) d) None of these 221. The term The Evil Quartet' is related with the major causes of a) Noter of the conservation of Nature And Natural Resources b) International Union of Change in Climate and Natural Resources c) International Union of Change in Climate and Natural Resources d) International Union of Change in Climate and Natural Resources d) International Union of Change in Climate and Natural Resources d) The number of species in an area increases with the size of that area 224. What is the exact latitudinal range for tro	216. Eurythermal animals and plants are those which		
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NEET BIOLOGY

BIODIVERSITY AND CONSERVATION

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	: ANSWER KEY :														
1)	а	2)	d	3)	d	4)	С	117)	а	118)	d	119)	b	120)	С
5)	d	6)	d	7)	b	8)	b	121)	С	122)	а	123)	b	124)	а
9)	а	10)	d	11)	b	12)	а	125)	d	126)	а	127)	d	128)	а
13)	d	14)	а	15)	b	16)	С	129)	b	130)	b	131)	a	132)	b
17)	а	18)	d	19)	b	20)	С	133)	b	134)	d	135)	b	136)	b
21)	а	22)	d	23)	d	24)	С	137)	b	138)	С	139)	b	140)	b
25)	b	26)	а	27)	d	28)	а	141)	b	142)	С	143)	a	144)	b
29)	d	30)	С	31)	d	32)	а	145)	а	146)	d	147)	d	148)	b
33)	а	34)	С	35)	а	36)	d	149)	b	150)	С	151)	a	152)	d
37)	С	38)	b	39)	d	40)	а	153)	b	154)	а	155)	С	156)	d
41)	а	42)	d	43)	а	44)	b	157)	b	158)	d	159)	d	160)	С
45)	b	46)	d	47)	С	48)	С	161)	b	162)	b	163)	b	164)	С
49)	b	50)	d	51)	d	52)	а	165)	С	166)	а	167)	С	168)	b
53)	С	54)	b	55)	С	56)	а	169)	d	170)	а	171)	С	172)	d
57)	а	58)	а	59)	d	60)	d	173)	С	174)	С	175)	a	176)	а
61)	С	62)	d	63)	а	64)	а	177)	d	178)	b	179)	d	180)	а
65)	b	66)	а	67)	d	68)	а	181)	d	182)	а	183)	С	184)	b
69)	b	70)	С	71)	b	72)	а	185)	а	186)	b	187)	b	188)	С
73)	а	74)	b	75)	b	76)	b	189)	а	190)	d	191)	a	192)	С
77)	С	78)	а	79)	b	80)	С	193)	С	194)	а	195)	a	196)	d
81)	С	82)	С	83)	С	84)	d	197)	b	198)	b	199)	b	200)	С
85)	С	86)	d	87)	d	88)	С	201)	d	202)	d	203)	b	204)	С
89)	С	90)	b	91)	а	92)	С	205)	С	206)	b	207)	a	208)	b
93)	d	94)	С	95)	b	96)	b	209)	b	210)	С	211)	d	212)	b
97)	а	98)	С	99)	С	100)	а	213)	С	214)	b	215)	С	216)	b
101)	С	102)	b	103)	С	104)	С	217)	а	218)	d	219)	b	220)	С
105)	а	106)	b	107)	а	108)	b	221)	С	222)	а	223)	d	224)	С
109)	b	110)	С	111)	b	112)	С	225)	d	226)	b	227)	a	228)	b
113)	b	114)	d	115)	С	116)	b	229)	а	230)	d	231)	С		

NEET BIOLOGY

BIODIVERSITY AND CONSERVATION

: HINTS AND SOLUTIONS :

8

1 (a)

Island ecosystem are the most vulnerable due to the small size and small number of the species

2 (d)

In situ strategy is the conservation and the protection of biodiversity in its natural habitat, where the population is conserved in the surroundings where they have developed their distinctive features. It includes, national parks, biosphere reserves, wildlife sanctuaries, sacred groves, etc.

3 (d)

Ecologically managed wildlife provides food, shelter and some commercially useful products. One step towards the wildlife conservation is to preserve the earth's genetic diversity by protecting all threatened species of the plants and animals

4 (c)

A biodiversity hotspot is a biogeographic region with a significant reservior of biodiversity that is threatened with destruction. Initially, 25 biodiversity hotspots were identified but subsequently nine more have been added to the list bringing the total number of biodiversity hotspots in the world to 34.

5 (d)

Rhododendrons are found in plenty at approximately 12000-16000 feet height on both Eastern and Western Himalayas.

6 (d)

A species, which is facing an extremly high risk of extinction in the wild in immediate future is called $\begin{vmatrix} 13 \\ 13 \end{vmatrix}$ (d) critically endangered.

7 **(b)**

Certain obligatory mutualistic relationships exist in nature, e.g., Pronuba and Yucca. Extinction of

one will automatically cause the extinction of the other. It is an example of co-extinction

(b)

Genetic diversity is the diversity in number and types of genes as well as the chromosomes present in different species, their variation in the genes and their alleles in the same species. It is mainly the variation in genetic information present in the organisms. It helps in speciation or evolution of the new species

9 (a)

There are an estimated 2,00,000 varieties of rice in India alone. The diversity of rice in India is one of the richest in the world. Basmati rice has 27documentes varieties grown in India.

10 (d)

In India, nearly 450 plant species and many animal species have been identified as endangered, threatened or rare. Hornbill and Indian aconite (*Aconitum deinorrhzum*) are in the list of Indian endangered species.

11 **(b)**

From high latitude to low latitude, biodiversity increases.

Biodiversity increases from poles to equator, *i.e.*, from high to low altitude

12 (a)

Dachigam National Park is situated near Dal Lake in Jammu and Kashmir. It is known for conservation of the most endangered Hangul or Kashmir stag paramount.

Aegle marmelos, Ocimum sanctum and *Ficus religiosa* are sacred species of plants. Aegle marmelos and Ocimum sanctum are also used as medicinal plants.

14 (a) An estuary is a semi-enclosed coastal body of water, which has a free connection with the open sea, thus strongly affected by tidal action and within which sea water is mixed with freshwater from land drainage, *e.g.*, river mouths, coastal bays, tidal marshes and water bodies behind barrier beaches.

15 **(b)**

Inexhaustible resources are available in unlimited quantities on earth, thus, can not be exhausted by man's consumption, *e.g.*, solar energy, air, water, soil, etc.

Fossil fuels, coal, petroleum, etc, are limited and exhaustible or non-renewable resources which when once depleted can not be gained or reused again.

16 **(c)**

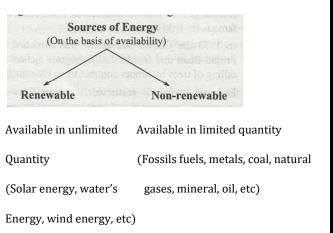
IUCN or IUCNNR (International Union for Conservation of Nature and Natural Resources) is now known a WCU (World Conservation Union). Its headquarter is at Morges, Switzerland. It studies the threat to biodiversity in all parts of the world by gathering information about the geographical distribution, population size and population changes of various taxa. It prepares a red list or red data book.

17 **(a)**

In vitro fertilization (IVF) is also known as test tube baby technique. It involves fertilising of one or more eggs outside the female's body and then transferring the zygotes (known as pre-embryos) back into the uterus (*i.e.*, embryo transfer).

18 **(d)**

Three- fourth surface of earth (about 71% of total) is occupied by ocean, which contains 97.5% of total water. This is marine water with about 3.5% salt contents. Rest water, *i.e.,* 2.5% is fresh water, which occurs on land. Most amount of this water (about 1.97%, *i.e.,* more than 70% of world's total freshwater) occurs as frozen polar ice caps and glaciers and 0.5% freshwater occurs as source water.



20 **(c)**

Rajaji National park is situated close to Dehradun in **Uttarakhand**. Its main wildlife are elephant, tiger, panther, slothbear, nilgai, cheetal, wild bear, etc.

21 **(a)**

The **National Forest Policy** (1988) aims at increasing forest cover of the country both in plains and hills. The percentage of forest cover recommended by the National Forest Policy (1988) is 33% for plains and 67% for hills.

22 **(d)**

The number of endangered species of angiosperms in India is 3,000.

23 **(d)**

An endemic species is the one found naturally in just one geographic area

24 **(c)**

Endemic species means the species restricted to a particular area or region.

Most of the endemic occur in North-East, North-West, Western ghats, Andaman Nicobar islands Western ghats possess a very large number of endemic amphibian species

25 **(b)**

Hot spots are the areas of high endemism and high level of species richness. Three of them occurs in India-Western Ghats and Sri Lanka/Indo-Burma (North-East India) and Himalaya

26 (a)

Van Mahotsav was started by K M Munshi in 1950.

27 (d)

19 **(b)**

A taxon is critically endangered when it is facing an extremely high risk of extinction in the wild in the near future.

28 **(a)**

Immense diversity (heterogeneity) exists in our biosphere, not only at the species level but at all the levels of biological organization ranging from the macromolecules within to biomass Sociobiologist Edward Wilson described the combined diversity at all the levels of biological organization

These are genetic diversity, species diversity and ecological diversity

29 **(d)**

Ecologically managed wild life provide food, shelter and some commercially useful products. One step towards the wild life conservation is to preserve the earth's genetic diversity by protecting all threatened species of plants and animals.

30 **(c)**

Biodiversity Act of India was passed by the Parliament in 2002.

31 **(d)**

Temperate forests are forests in the temperature climatic zone. Branches of evergreen tree in these forests are clotted with mosses and many woody climbers.

32 **(a)**

The lemurs are the inhabitants of Madagascar and the Comoro islands. Endangered species are whose population have been reduced to a critical level. So, they are near to extinction in near future.

33 **(a)**

The United Nations conference in environment and development is also known as the Rio Summit and Earth Summit. This was a major United Nations conference held in Rio de Janerio from June 3 to June 14, 1992. 172 governments participated, with 108 sending their heads of state or government.

34 **(c)**

Water hyacinth (*Eichhornia crassipes*) was introduced in Indian waters to reduce pollution, is an example of alien species invasions Throughout the world, biodiversity is not uniform because it is affected by two factors- latitudinal gradients and species-area relationship

36 **(d)**

Characteristics of a stable community (i) Productivity should not vary too much from year to year

(ii) It should be resistant to occasional, natural and man-made disturbances

(iii) It should be resistant to invasions by alien species

37 **(c)**

Oceans regulate the CO_2 content in the atmosphere and thus, play a very important role. Sea water contains 50 times more CO_2 than air, *i.e.*, about 70% of total global carbon is found in oceans.

38 **(b)**

Initially 25 biodiversity hot spots were identified but subsequently nine more have been added to the list, bringing the total number of biodiversity hot spots in the world to 34. These hot spots are also the regions of accelerated habitat loss. *Three of these hot spots are* Western ghats, Sri Lanka, Indo-Burma and Himalaya-cover.

Our country is exceptionally high in biodiversity regions. Although, all the biodiversity hot spots put together covers less than 2% of the earth's land area, the number of species they collectively harbor is extremely high and the strict protection of these hot spots could reduce the ongoing man extinctions by almost 30

39 **(d)**

India occupies a dominant position in South Asia. The country is quite rich in biodiversity with sizable percentage of endemic flora and faunna. It has 10 biolgeographical regions.

Deccan peninsula is the largest biogeographical region of India (occupies 45% of land mass).

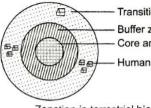
40 **(a)**

Taiga (North coniferous forests) are found above 5300 ft (1000-1500m) altitude chiefly on mountains of Himalaya and Nilgiri.

41 **(a)**

Each biosphere reserve has

35 **(a)**



- Transition zone - Buffer zone - Core area - Human settlement

Zonation in terrestrial biosphere

(i) **Core or Natural Zone** No human activity is allowed. The area is undisturbed and legally protected ecosystem

(ii) Buffer Zone It surrounds the core area.Limited human activity is allowed like resource use strategies, research and education

(iii) **Transition Zone** (Manipulation Zone) It is the outermost or peripheral part of biosphere reserve where an active cooperation is present between reserve management and local people for activities like settlements, cropping, recreation, forestry and other economic uses without disturbing ecology.

Transition zone has different parts like forestry, agriculture, tourism and restoration regions. Restoration region is the degraded area which is selected for restoration to near natural form

42 **(d)**

India now, has 14 biosphere reserves, 90 national parks and 448 wildlife sanctuaries

43 **(a)**

exsitu conservation means conservation outside the natural habitats by perpetuating sample population in genetic resource centres or in the form of gene pool. This form of conservation includes –zoos, botanical gardens, seed banks, pollen storage, tissue culture, genetic engineering.

44 **(b)**

The Irrawady dolphin (*Orcaella brevirotris*) is the flagship species of Chilka lake. Chilka is home to the only known population of Irrawady dolphins of India and one of only two lagoons in the world that are home to this species.

45 **(b)**

46

Ecologists believe that the communities with more species tend to more stable than those with less species. This was confirmed by **David Tilman** (d)

In sedimentary cycle of matter, materials involved in circulation between biotic and abiotic components of biosphere are non-gaseous and the reservoir pool is lithosphere, *e.g.*, P, Ca, S and Mg.

47 **(c)**

The term 'wildlife' refers to any living organisms in its natural habitat. It includes all plants, animals and microorganisms except the cultivated plants and domesticated animals.

48 **(c)**

Gir National Park (Gujarat) is not concerned with tiger. The animals found in Gir national park are Asiatic lion, panther, striped hyaena, sambar, nilgai, cheetal, four-horned antelope and chinkara.

Ranthambhor National Park, Sunderbans and Jim Corbett National Park (Uttarakhand) are tiger reserves.

49 **(b)**

The number of species of birds in Columbia, located near the equator is 1400

50 **(d)**

In recent years, *ex situ* conservation has advanced beyond keeping threatened species in enclosures. Now, gametes of the threatened species can be preserved in viable and fertile condition for long periods using cryopreservation techniques. Eggs can be fertilized *in vitro* and plants can be propagated using tissue culture methods

51 **(d)**

Biosphere reserves are a special category of protected areas of land and/or coastal environments wherein people are an integral component of the ecosystem. It represents a specified area zonated for particular activity and consists of core zone without any human activity, buffer zone with limited human activities and manipulation zone with several manipulating human activities.

52 **(a)**

Silent valley is located in Kerala (South India). The area under this was historically explored in 1847 by the botanist **Robert Weight**.

53 **(c)**

A species of organism that is not native to a locality and having been moved there from its natural range by humans or other agents is called exotic species, *e*. *g*., water hyacinth, *Prosopis cineraria*, etc.

54 **(b)**

Energy obtained from sunlight is known as solar energy. It can be exploited as an inexhaustible, non-conventional source of energy.

55 **(c)**

India's first National Park (IUCN category-II protected area) was **Hailey National Park**, now called **Jim Corbett National Park**, established in 1935. by 1970, India had only 5 national parks, while today has 92 (as of May 2004).

56 **(a)**

The following species of plants are now widely used for social forestry: *Acacia, Leucaena* (subabul), *Prosopis* (jand), *Sesbania* (agastha), *Casuarina, Tectona* (teak), *Dalbergia* (sisham), *Moringa* (sahjan) and *Azadirachta indica* (neem).

57 **(a)**

The approximate percentage of the earth covered by the terrestrial hot spots is 1.5% (less than 2%)

58 **(a)**

Destruction of habitats due to any reason (including cutting down of forests) exposes wild life to a variety of risk factors including predation and hunting.

59 **(d)**

There are various hypothesis for higher diversity in tropical areas

(i) Speciation is a function of time. Temperate areas have undergone frequent glaciation in the past. It killed most of the species. No such disturbance occurred in tropics where species continued to flourish and evolved undisturbed for millions of years

(ii) There are no unfavourable seasons in tropics.Continued favourable environment has helped tropical organisms to gain more niche spec ialisation and increased diversity

(iii) More solar energy is available in tropics. This promotes higher productivity and increased biodiversity

(iv) Resource availability is higher in tropics(v) There is reduced competition in tropics due to favourable environment

(vi) Rate of extinction is low in tropics

60 **(d)**

Kaziranga is famous for Rhinoceros. Little Rann of Kutchh is famous for wild ass.

61 **(c)**

Biodiversity Act of India was passed by the Parliament in the year2002.

62 **(d)**

The world is facing accelerated rate of biodiversity losses due to human interference. The causes are over population, urbanization, industrialization, coextinctions, alien species invasions, habitat loss and fragmentation, etc.

63 **(a)**

The diversity at the species level is measured as species diversity. It is the variety in the number and richness of the species of a region. For example, the Western Ghats have a greater amphibian species diversity than the Eastern Ghats

64 **(a)**

IUCN(International Union for the Conservation of Nature and Natural Resources) headquarter at Morgan, Switzerland, has8 Red list categories of species-extinct, extinct in wild, critically endangered, vulnerable, lower risk, data deficient and not evaluated. In India, it is completed by Botanical Survey of India (BSI).

65 **(b)**

Example of *ex situ* conservation are zoos, aquaria and captive breeding programmes just like breeding of animals in Nandan Kanha.

66 **(a)**

In the species-area relationship, *S* represents species richness

67 **(d)**

Those species whose population has been greatly reduced or whose natural habitats have been disturbed due to which these are near the extinction and may become extinct if the causative factors continue, are grouped under the category of **threatened species**.

IUCN (International Union Conservation of Nature and Natural Resources) is maintaining a **Red Data Book**, which contains a record of species, which are threatened. These include vulnerable, endangered and rare species.

68 **(a)**

Organic matter (organic wastes) contains a number of pathogens, secondary pollutants, pesticides, etc. Biological oxygen demand becomes high and therefore, the dissolved oxygen reduced. Hence, planktons, Mollusca and fishes will be eliminated due to reduced dissolved oxygen and presence of secondary pollutant. Some species like annelid worm *Tubifex* and some insect larvae (*Chironomus*) tolerate pollution.

69 **(b)**

Medicinal plant, *Rauwolfia vomitoria*, growing in different Himalayan ranges, shows differences in the potency and concentration of active chemical called reserpine due to genetic diversity

70 **(c)**

Conservation of biodiversity is the protection, uplift and scientific management of biodiversity so as to maintain it at its optimum level and derive sustainable benefits for the present as well as future generations. Sustainable use is the ability to use natural resources in a way that helps people and protects the ecosystem

71 **(b)**

The coniferous forest or taiga or boreal forest consists of evergreen, cone bearing trees like spruce, pine, etc. Mean annual rainfall is 50-170 cm (50-250 cm annual variation in precipitation). In winter average temperature is 6°C and night are long and chilly while summers are pleasant with average maximum temperature of 20°C and with long hours of day light (-1°C to 13°C annual variations in the intensity and duration of temperature).

72 **(a)**

In situ conservation is the conservation of living resources through their maintenance within the natural ecosystem in which they occur, *e.g.*, national parks, sanctuaries, biosphere reserves.

73 **(a)**

Biota is the total number of all species of organisms in a given region. Flora is the plant species of a region while **fauna** is the animal species in an area.

74 **(b)**

Rhino (*Rhinoceros unicornis*) are protected in Kaziranga National Park. This park is situated ar Asom.

Ranthambor and Bandipur national parks are tiger (*Panthera tigris*) reserve, while Gir forests protect lion (*Panthera leo persica*).

75 **(b)**

Simlipal is biosphere reserve located in Orissa.

76 **(b)**

Humus is the fully decomposed organic matter mixed with mineral matter. It is dark brown or black in colour and is found in the region, a, or humio or melanised region or horizon-A of soil profile.

77 **(c)**

In the given table, the area 'IV' has maximum species diversity, as there are 10 species (A-J) reside in 12 habitats, while in area 'III', the 10 species reside in 13 habitats, so exhibit less diversity than area 'IV'.

78 **(a)**

A species becomes prone to extinction due to the two categories of attributes, drastic environmental changes and population characteristics

Population traits are-small population size, large body size, higher status of trophic level, etc.

79 **(b)**

A botanical gardens is collection of various types of living plants. *Ex situ* conservation means conservation of plants or animals in the artificial habitats, which are quite similar to the normal habitats of these organisms. In this way, botanical gardens provide *ex situ* conservation of germplasm.

80 **(c)**

Approximately 20% of the world's population lives in dryland environments. Almost 75% lives in semi-arid zones, 25% in arid zones and only 1% in hyper arid zone.

81 (c)

A taxon is vulnerable (VU) when it is not critically endangered or endangered but is facing a high risk of extinction in the wild in the medium term future. Population is estimated to number less than 1000 mature individuals, *e.g.*, Madagascar frog, *Dyscophus antongilii*, *etc*.

82 **(c)**

Gamma diversity refers to the diversity of the habitats over the total land scape or geographical area.

83 **(c)**

Great Indian bustard (Choriotis=Ardeotis nigriceps) is a long necked, long bared legged, ground bird. It is the largest endangered bird in India.

84 **(d)**

All these are exotic species.

85 **(c)**

In India, maximum biodiversity is found in two geographical areas, *i.e.*, eastern himalayas and western ghats. These two areas are included among the 25 hotspots of the world.

86 **(d)**

Anthropogenic extinctions are the extinctions abetted by human activities like settlements, hunting, overexploitation and habitat destruction

87 **(d)**

Prolonged liberal irrigation of agricultural fields is likely to create the problem of salinity.

88 **(c)**

The relationship between the species richness and the area for a wide variety of taxa, appears as a rectangular hyperbola

89 **(c)**

IUCN maintains a Red Data Book or red list which is a catalogue of taxa facing risk of extinction

90 **(b)**

All the option are correct.

91 **(a)**

Podophyllum is an Indian endangered flora. Its dried roots and rhizomes are used in chronic constipation and tumurous growth.

92 **(c)**

Laterite soils are formed through a process called laterisation, in which silica dissolves and leaches downwardly but iron and aluminum remain on the top soil. These soils are red acidic soils, rich in

organic matter, iron and aluminium but deficient in lime, Mg, P and K, etc.

93 **(d)**

Biodiversity is important at every hierarchical level-genetic diversity (gene pool), species diversity, community and ecosystem diversity. It is being threatened by the reduction in space, smaller and fragmented habitats, overexploitation by humans, human sponsored ecosystems, climatic changes, pollution and invasive exotic species.

However, it is important that the present human population derives economic, ecological and aesthetic benefits from biodiversity. It is equally important that the biodiversity is preserved in all its forms and in good health for the future generations. Further degradation and destruction of habitats should be prevented

94 **(c)**

A second World Summit was held in 2002 in Johannesberg, South Africa. 190 countries attending the summit pledged to significantly reduce the current rate of biodiversity loss at global, regional and local levels by 2010

95 **(b)**

Edge effect deals with the presence of diversity at the junction of territories of two different habitats.

96 **(b)**

Mango has maximum genetic diversity in India.

97 **(a)**

Wildlife Protection Act was introduced in 1972 and it was amended in 1991.

98 **(c)**

Earth Summit promoted Convention on Biological Diversity. The main objectives of convention of biodiversity were

(i) Adaption of ways and means to conserve biodiversity

(ii) Managing biodiversity for sustainable use (iii) Ensuring equitable sharing of the benefits form biological diversity including utilisation of genetic resources. Agenda 21, a product of Earth Summit, is a blue print for encouraging sustainable development of diversity through social, economic and environmental measures in the 21st century 99 **(c)**

Tillage is a method of soil conservation. In this method, the underground parts of several grasses are left out after the crop is harvested. These parts remain underground, which improves soil fertility. This method is also used for some plants such as maize, potato, etc.

100 **(a)**

As compared to other reserves in the India Sunderban National Park has the largest tiger population. It also reserves the salt water crocodiles, Gangetic dolphins, cheetals, wild boars, rhesus macaques, etc.

101 **(c)**

Threatened species in India include about 81 species of wild mammals, 30 wild birds, 15 reptiles and amphibians and many invertebrates.

102 **(b)**

Endangered species are those species, which are on the verge of extinction because of critically reduced number of individuals due to indiscriminate killing and due to drastic reduction in their habitats. Common endangered animals are Indian wild ass, Indian one –horned rhinoceros, etc.

103 **(c)**

A more conservative and scientifically sound estimate made by Robert May, places the global species diversity at about 7 million

104 **(c)**

On a logarithmic scale, the species area relationship is a straight line described by the equation

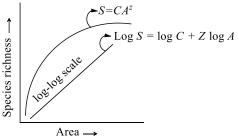
 $\log S = \log C + Z \log A$

Where, S = species richness

```
A = area
```

Z = slope of the line

```
C = Y-intercept
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Out of the 25 hotspots of the world, two are found in India. These are Western ghats and Eastern Himalayas and these extend to the neighbouring countries also. These areas show high degree of endemism and area inhibited by a wide variety of flowering plants, swallow-tailed butterflies, amphibians, reptiles and mammals.

106 **(b)**

The Kashmir stag (*Cervus elaphus hanglu*) also called **hangu**, is a subspecies of Red Deer native to northern Pakistan and India. This deer lives in riverine forests, high valleys and mountains of the Kashmir valley and northern Chamba in Himachal Pradesh. In Kashmir, it's found in Dachigam National Park.

107 **(a)**

Rivet popper hypothesis explains the importance of biodiversity for the survival of species. It was proposed by Paul Ehrlich

108 **(b)**

Alpha diversity refers to the diversity of organisms showing the same community for habitat. A combination of richness and equitability/evenness is used to represent diversity within a community or habitat.

109 **(b)**

Chiru is the source of Shahtoosh.

110 **(c)**

Nepenthes is an endangered species of plant. Rauwolfia, Rhododendron, Psilotum, Ophioglossum are some other endangered species of plants.

111 **(b)**

In the beginning of 20^{th} century, about 30% of land mass in India was covered with forests and at the end of 20^{th} century, it is reached by 19.4%.

112 **(c)**

Genetic diversity is the diversity in the number and types of genes as well as chromosomes present in different species and the variations in the genes and their alleles in the same species. Introduction of high yielding varieties is the greatest threat to genetic diversity in agricultural crops.

113 **(b)**

Endemic species are species which are restricted geographically in a particular area in a given time.

114 **(d)**

Humans derives countless direct economic benefits from the nature like food, firewood, fibre, construction material, industrial products and products of medicinal importance. More than 25% of the drugs currently sold in the market worldwide are derived from the plants and 25000 species of the plants contributes to the traditional medicines used by native peoples around the world

115 **(c)**

Ex situ strategy is the conservation of selected threatened plants and animal species. *Ex situ* strategy is the conservation of selected threatened plant and animal species in places outside their natural habitat, where the population is conserved under stimulated conditions that closely resemble their natural habitats. It includes, botanical gardens, zoological parks, wildlife safari, gene banks, etc.

116 **(b)**

Afforestation or **reforestation**, *i.e.*, growing of forest trees is most effective in controlling soil erosion. The Government of India has introduced the festival of 'Van Mahotsav'. In this festival, planting of tress is done on open waste land.

117 (a)

Excessive exploitation of a species, whether a plant or animal reduces the size of its population, so that it becomes vulnerable to extinction. Many marine fishes like whales population is declining around the world because of over harvesting. Some commercially important species are likely to become endangered

118 **(d)**

The number of species facing the threat of extinction worldwide is 15,500

119 **(b)**

Biosphere reserve is an *in situ* conservation method. Hence, it is the most effective way among the four for preserving genetic diversity by protecting wild population, traditional life style and domesticated plant genetic resource.

120 **(c)**

Loss of biodiversity occurs due to habitat loss, fragmentation over exploitation, alien species invasion and co-extinction.

121 **(c)**

Variation in the genes of a species increases with the increase in size and environmental parameters of the habitat

In results in the formation of polymorphsecotypes, races, varieties and sub-species. Genetic diversity is useful in adaptation to the change in environmental conditions.

Medicinal plant, *Rauwolfia vomitoria* shows variation due to the genetic diversity

122 **(a)**

In situ consevation is the conservation of living resources through their maintenance within the natural ecosystems, in which they occur. *In situ* conservation includes a comprehensive system of protected areas such as the national parks, sanctuaries, natural reserves, biosphere reserves, etc.

123 **(b)**

The cheetah (*Acinonyx jubatus*) is a member of cat family. Cheetah have been know to exist in India for a very long time. But due to hunting and other purposes, cheetah in India became extinct before the twentieth century.

124 **(a)**

For frugivorous birds and mammals in the tropical forests of different continents, the slope is found to have a value of 1.15

125 **(d)**

Given, $\log A = 4$, Z = 0.3 and $\log C = 0.8$ Putting these values in equation, *i.e.*, species area relationship equation, we will get the value of log *S*

```
log S = log C + Z log A= 0.8 + 0.3 \times 4= 0.8 + 1.2
```

126 **(a)**

Siberian cranes are regular visitors of Bharatpur sanctuary, Rajasthan.

127 **(d)**

Ex situ strategy is the conservation of selected threatened plant and animal species in places outside their natural habitat, where the

population is conserved under stimulated conditions that closely resemble their natural habitats. It includes, botanical gardens, zoological parks, wildlife safari, gene banks, etc.

128 (a)

Periyar sanctuary is located in Kerala.

129 **(b)**

Manas Wildlife Sanctuary is situated at Kamrup (Asom). It covers 80 sq km area. It's key vertebrate species are tiger, wild boar, sambhar, golden langoor, one-horned rhino, swamp deer, wild dog and wild buffalo.

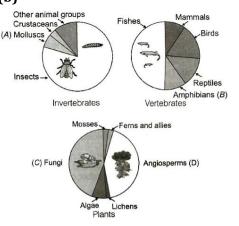
130 **(b)**

Eutrophication means nutrient enrichment. Rich growth of microorganisms consumes most of the dissolved oxygen, so as to deprive other organisms.

131 (a)

Deforestation is the depletion of forest resources. Its main cause is the explosion of human and livestock population with the increased demand of the basic needs. Ideally, one third (33%) of land of a country must be covered by forest. In India, forest cover is only 19.43% out of which only 13% 135 (b) are thick forests. India is losing about 1.5 million hectare of forest covers each year. The major effect of deforestation is the loss of precious wild life, rare species of flora and fauna. Directly or indirectly, deforestation caused intensified soil erosion, accentuated flood, drought and the worst pollution.

132 (b)



On earth, more than 70% of all the species recorded are animals, while plants (including algae, fungi, bryophytes gymnsoperms and angiosperms) comprises no more than 22% of the total. Among animals, insects are the most species-rich taxonomic group, making up more than 70% of the total. Number of fungi species in the world is more than the combined total of the species of fishes, amphibians, reptiles and mammals

133 (b)

Soil transportion by wind is common in dry regions where soil is chiefly sandy and the vegetation is very poor. Transported soils are those where the weathered material is taken away at other places. Depending on the nature of these transporting agents, the transported soil may be

(i) Glacial, transported by glaciers (large mass of snow ice)

(ii)Eolian, transported by wind

(iii)**Aluvial**, transported by running water

(iv) **Colluvial**, transportation by gravity.

134 (d)

Ranthambor national park is situated inRajasthan.

A plant Bentinckia condapanna/nicoarica (member of family -Arecaceae) and the animal, red panda, both are declared as endangered in India.

136 (b)

Earth Summit at Rio de Janerio (1992), Brazil, promoted Convention on Biological Diversity (CBD) which was signed by 152 nations

137 (b)

The narrowly utilitarian arguments for conserving biodiversity are Human derives countless direct economic benefits from nature-food (pulses, cereals, fruits), firewood, fibre, construction, dyes, resins, perfumes) and the products of medicinal importance

138 (c)

Species diversity.

The diversity at the species level is measured as species diversity. It is the variety in the number and richness of the species of a region. For example, the Western Ghats have a greater

amphibian species diversity than the Eastern Ghats

139 **(b)**

In 1973, the Chipko movement (Chipko means to hug or stick to) was launched by **Chandi Prasad Bhatt** and **Sunder Lal bahuguna** against large scale felling of trees by timber contractors in the Uttarakhand hills. The starting point was **Chamoli** district of **Garhwal** region in Uttarakhand.

140 **(b)**

In 1973 the Chipko movement was launched by Chandi Prasad Bhatt and Sundar Lal Bahuguna against large scale falling of tress by timber contractors in Uttaranchal hills.

141 **(b)**

Agroforestry is a system of land use where woody perennials are deliberately used on the same land management units as annual agricultural crops for animals simultaneously or sequentially to obtain greater outputs. Two special methods of agroforestry are **Taungya system** in which crops are grown between trees and **Jhum system** or shifting cultivation or slash and burn agriculture.

142 **(c)**

Exhaustible resources are natural resources with finite supply, which if used indiscriminately are likely to diminish and then get exhausted. Fossil fuel is a non-renewable (limited) exhaustible source of energy.

143 **(a)**

Sanjay Gandhi Biological Park is situated in Patna (Bihar).

144 **(b)**

Tropical rain forests to **Amazon** in South America possess the greatest biodiversity on earth with more than 40000 species of plants, 3000 of fishes, 1300 birds, 427 of mammals, 427 of amphibians, 378 of reptiles and more than 125000 invertebrates

145 **(a)**

Species diversity is the variety in number and richness of the species of a region. The number of species per unit area is called

species richness

146 **(d)**

(i) Alpha diversity is the species diversity in a given community and habitat

(ii) Genetic diversity is the diversity in number and types of genes as well as chromosomes present in different species and the variations in the genes and their alleles in the same species
(iii) Beta diversity is the biodiversity which appears in a range of communities due to replacement of species with the change in community/habitat

(iv) Species diversity is the variety in the number and richness of the species of a region. It is a product of species richness and evenness

147 (d)

Red Panda is an endangered species according to IUCN.

148 **(b)**

Habitat loss and fragmentation is the most important cause driving animals and plants to extinction. Due to various human activities when large habitats are destructed, various animals are badly affected leading to population declines.

149 **(b)**

Biosphere is the part of earth in which life exists.

150 **(c)**

According to the IUCN (2004), the total number of plants and animals species described, so far is slightly more than 1.5 million but there is no clear idea of how many species are yet to be discovered and described

151 **(a)**

In situ (on-site) conservation refers to the protection and maintenance of biological diversity through a network of protected areas. Here, the selected flora/fauna are naturally conserved in their natural homes. It includes, national parks, sanctuaries, biosphere reserves, etc.

152 **(d)**

	(·)	
	Biosphere	Animal
	Reserve	
	Gir forest	Asiatic lion,
		panther, striped
		hyena
	Kaziranga	Rhinoceros , wild
		buffalo, gaur
	Corbett	Elephant , tiger,
	National Park	panther, sloth
		bear, etc
	Rann of Kutch	Wild ass
153	(b)	

Biosphere reserves are multipurpose protected areas, which are meant for preserving genetic diversity in representative ecosystems of various natural biomes and unique biological communities by protecting wild populations, traditional life style of tribals and domesticated plant and animal genetic resources. Humans are integral part of biosphere reserves but not of the National Parks.

154 **(a)**

Biosphere Reserve Programme was launched by UNESCO in 1971 under its "Man and Biosphere Programme" (MAB). But in India, it was launched in 1986.

155 **(c)**

The term 'deforestation' means cutting of trees. Due to cutting of trees, the erosion of soil may occur.

156 **(d)**

Lime is used as a chemical fertilizer. It is quite alkaline hence, can be added to the soil which is too acidic.

157 **(b)**

Rivet popper hypothesis assumes the ecosystem to be an aeroplane and the species to be the rivets, joining as parts together

158 **(d)**

Initially 25 biodiversity hotspots were identified but subsequently (nine) more have been added to the list, bringing the total number of biodiversity hot spots in the world to 34. They are the areas of high endemism and high level of species richness

159 **(d)**

All statements are true about Amazon rainforest. Amazon rainforest (it is so, huge that it is called the 'lungs of the planet') harbouring probably millions of the species are being cut and cleared for cultivating soyabeans or for the conversion to grasslands for raising beef cattle

160 **(c)**

Mass extinction occurred between cretaceous and tertiary over 60 million years ago when dionosaurs and a number of other organisms disappeared. It is also called K-T boundary

161 **(b)**

Nehru Zoological Park is situated in Hyderabad.

In accordance with wild life (protection) Act, 1972, passed by Indian government, national parks and sanctuaries could be created for the protection, preservation and propagation of wild animals. In wildlife sanctuaries, protection is given to animal life, while in national parks both flora and fauna are conserved.

163 **(b)**

A keystone species is the one that exerts a strong influence on an ecosystem

164 **(c)**

There are many reasons, some are obvious and others are not so obvious, but all are equally important behind conserving biodiversity. *They can be grouped into three categories* narrowly utilitarian, broadly utilitarian and ethical utilitarian

165 **(c)**

Fossil fuel, coal, petroleum, natural gas, etc, are non-renewable energy sources. These are available only in a limited quantity and are not able to reproduce or replace themselves or to increase. Once, the non-renewable resources are consumed, they are forever. Hence, it is believed that these will be exhausted in near future.

166 **(a)**

Hoolock gibbon, rhinoceros, *Python*, etc, are protected in the Kaziranga National Park, Sibsagar (Asom).

167 **(c)**

Joint Forest Management (JFM) was introduced so as to work closely with the local communities for protecting and managing forests.

168 **(b)**

Forests are very important to us, they cover about 23.68% of our earth and help in population control. They also help us by providing useful food and thus play an important role in ecological balance.

169 **(d)**

Sacred grooves are the forest patches around the places of worship, which are held in high esteem by tribal communities. They are found in several parts of India, *e. g.*, Karnataka, Maharashtra, Rajasthan (Aravalli), Madhya Pradesh (Sarguja, Chanda and Bastan), Kerala, Meghalaya. In

162 **(b)**

Meghalaya, sacred groves are found in Jaintia and Khasi hills

170 **(a)**

The number of species in a community really matters to the functioning of the ecosystem. Ecologists believe that communities with more species, generally, tend to be more stable than those with less species

171 **(c)**

Ex situ conservation is the preservation of components of biological diversity outside their natural habitat. It includes cryopreservation, off site collections, gene banks and tissue culture.

In situ conservation is the preservation of biological diversity in their natural wild conditions, usually in the form of biosphere reserves, national parks and wild life sanctuaries.

172 **(d)**

Eminent conservationists identified areas (regions) with very high level of species richness and high degree of endemism (*i.e.*, species confined to that region and not found anywhere else) for maximum protection. Initially the number of biodiversity hot spots were 25 but now it increased up to 34

173 **(c)**

Gene pool is the total aggregate of genes in a population at any one time. If any species (*e.g.,* Bengal tiger) become extinct, its gene pool will be lost forever.

174 **(c)**

There are various hypothesis for higher diversity in tropical areas. One of them is, rate of extinction is low in tropics

175 **(a)**

Clayey soils consist of hydrated silicates of aluminium and the size of the soil particles is less than 0.002 mm. Clayey soils are the least porous, compact soils with good hydration but little aeration.

176 **(a)**

The main goals of soil conservation are prudent fertilization, thoughtful irrigation and prevention of soil erosion (*i. e.*, protection of top fertile soil from being carried away by wind and water).

Alpha diversity is one of the three types of ecological diversity. It is the species diversity in a given community or habitat. α - diversity is dependent upon species richness and evenness/equitability

178 **(b)**

 $5^{\ensuremath{\text{th}}}$ June- World environment day

29th December- World biodiversity day

16th September- Ozone layer conservation day

179 **(d)**

The temperature of earth in winter season is $1 - 10^{\circ}$ C while in summer it is $25 - 40^{\circ}$ C.

180 **(a)**

Contour farming method is usually employed in hilly regions. In this method, the land is ploughed against the slope instead of down the slope for seeding and harvesting operations.

181 **(d)**

Forest is a renewable, exhaustible natural resource. Renewable resource are living, able to reproduce or replace themselves and to increase. The renewable resources get replenished, recycled or reproduced and they are not used beyond their renewability. Exhaustible resources are the natural resources with finite stock or supply, they are vulnerable to both qualitative and quantitative degradation.

182 **(a)**

The Amazon rain forest is a moist brodleaf forest that covers most of the Amazon basin of South America. This region includes territory belonging to nine nations. The majority of the forest is contained within Brazil, with 60% of the rain forest, followed by Peru with 13% and with minor amounts in Columbia, Venezuela, Ecuador, Bolivia, Guyana, Surinam and French Guyana. States or departments in four nations bear the name Amazonas after it. The Amazon represents over half of the planet's remaining rain forests and comprises the largest and most species rich tract of tropical rain forest in the world.

183 **(c)**

India has nearly 45000 plants and twice as many animals

184 **(b)**

177 (d)

Although India has only 2.4% of the world's land area, its share of the global species diversity is 8.1%. That is why, our country is one of the 12 megadiversity countries of the world

185 **(a)**

All are true except the (iv)

It is species diversity and not biodiversity, which is important for maintaining higher levels of productivity and ecosystem health

186 **(b)**

In the biosphere reserve, people are an integral part, but not in National Parks and wild life sanctuaries.

187 **(b)**

India has more than 50,000 genetically different strains of rice.

The diversity of rice in India is heighest in the world. More than 50,000 genetically different strains of rice has been estimated in India, alone. Basmati rice has 27 documented varieties grown in India

188 **(c)**

India is secondary centre for domestication of potato

189 **(a)**

In India, the first biosphere reserve is Nilgiri Biosphere Reserve (NBR). It includes two well known national parks, *viz*, Bandipur National Park and Nagarhole Park.

190 **(d)**

Endemic species restricted to a specific area. Sibling species are species which do not interbreed but are otherwise difficult to separate on the basis of morphological characters alone.

Sympatric species are having overlapping are of geographical distribution.

191 **(a)**

IUCN (International Union of Conservation of Nature and Natural Resources) is now called World Conservation Union (WCU). Its headquarter is at Morges, Switzerland

192 **(c)**

The **World Wide Fund for Nature** (WWF) is an international non-governmental organisation working on issues regarding the conservation, research and restoration of the environment.

When a species become extinct, the plants and animals species associated with it in an obligatory way also become extinct In the case of coevolved plant-pollinator

mutualism, extinction of one invariably leads to the extinction of the other

194 **(a)**

70%.

When we discuss about earth's biodiversity, more than 70% of all the species recorded are animals, while plants (including algae, fungi, bryophytes, gymnosperms and angiosperms) comprises not more than 22% of the total

195 **(a)**

Alpha diversity is the species diversity in a given community and gamma diversity is present in ranges of communities over a total geographical area

196 **(d)**

Minerals and fossil fuels are the non-renewable (can not be regenerated after being used up) and exhaustible (limited) resources, while water, wildlife, soil fertility and aquatic plants and animals all are renewable resources.

197 **(b)**

The term biodiversity was given by Edward Wilson.

Immense diversity (heterogeneity) exists in our biosphere, not only at the species level but at all the levels of biological organization ranging from the macromolecules within to biomass Sociobiologist Edward Wilson described the combined diversity at all the levels of biological organization

These are genetic diversity, species diversity and ecological diversity

198 **(b)**

Taxa whose numbers have been reduced to a critical level or whose habitats have been so, drastically reduced that they are deemed to be in immediate danger of extinction are called endangered animals, *e.g.*, lion-tailed macaque, crocodile, musk deer, rhino, etc.

199 **(b)**

Species diversity is a product of both species richness and evenness or equitability, *i.e.*, species richness weighed by species evenness. Odum *et. al* (1960) calculated species diversity (d) as the number of species in relation to the square root of

193 **(c)**

the total number of individuals. In ecological studies, diversity index commonly used is Shannon index

200 **(c)**

Extinction vertex is a combination of genetic and demographic factors

201 **(d)**

The causes of biodiversity losses are alien species invasions, habitat loss, fragmentation and coextinctions etc.

The world is facing accelerated rate of biodiversity losses due to human interference. The causes are over population, urbanization, industrialization, coextinctions, alien species invasions, habitat loss and fragmentation, etc.

202 **(d)**

Rivet popper hypothesis suggests the ecosystem are like aeroplane wings where the flight ecosystem functioning may or may not be compromised

This hypothesis assumes the ecosystem to be an aeroplane and the species to be the rivets joining all parts together

If every passenger pops a rivet to take home (resulting in species extinction), it may not affect the flight safety initially (proper ecosystem functioning) but with time as more rivets are removed, the plane will become dangerously weak

203 **(b)**

Run-off water refers to the water falls during rainfall (precipitation) and goes back to the source, *e. g.*, sea, ocean, etc. In this way, a large amount of fresh water gets wasted. So, the greater problem of water conservation is to reduce the amount of run-off water.

204 **(c)**

Dudhwa National Park is in Uttar Pradesh. It was originally meant for protecting swamp deer. Later, tiger and leopard have been re-introduced. The rhino has been recently introduced.

205 **(c)**

In agrostological methods of soil conservation, grasses such as *Cynodon dactylon* are utilizing as erosion resisting plants. The grasses are grown in strips between the crops. This method practised in dry arid regions; is called dry farming and helps to maintain moisture content in the soil.

206 **(b)**

The Eastern Himalaya's hotspot of our country extends to the North Eastern India and Bhutan. The Indo-Burma region covering the Eastern Himalayas is also known as cradle of speciation.

207 **(a)**

The name of Smt. Thimmakka is associated with the planting and conservation of avenue trees.

208 **(b)**

The reflectivity percentage of incident light on earth is meteorologically called albedo.

209 **(b)**

Mango has the maximum genetic diversity in India. India has approximately 1000 varieties of mango

210 **(c)**

Species area relation is used by ecologists to estimate the number of species extinction resulting from the habitat destruction

211 **(d)**

All are true except IV

212 **(b)**

Endemic plants are restricted to grow in limited or confined areas, *i.e.*, these grow in geographically limited areas. These are adapted to grow in particular regions only.

213 **(c)**

On earth, 70% of all the species recorded are animals, while plants comprises no more than 22% of the total

Among animals, insects are the most species rich taxonomic group, making up more than 70% of the total. That means, out of every 10 animals on this planet, atleast 7 are insects

214 **(b)**

The world Summit on sustainable Development was held in South Africa.

The World Summit on Sustainable Development was held in Johannesburg, South Africa in 2002 in which 190 countries pledged to reduce the current rate of biodiversity loss at global, regional and local levels by 2010. Regarding the same the Biodiversity ACt was passed in India in the year 2002

215 **(c)**

Gamma diversity represents the total richness of species in all the habitats found within a region, geographical area or landscape.

216 **(b)**

Eurythermal are those animals, which can tolerate large variations of temperatures, *e.g.*, man. Stenothermal are animals, which can tolerate only small variations in temperature, *e.g.*, frog and all other cold-blooded animals.

217 (a)

Biodiversity increases from poles to equator, *i.e.*, from high to low altitude

218 (d)

33% of flowering plants, 10% of mammals, 36% reptiles, 60% amphibians and 53% freshwater fishes are endemic (restricted to a particular area or region)

219 **(b)**

India has only 2.4% of world's land area

220 **(c)**

Natural or background extinction is a slow process of replacement of existing species with the better adapted species due to alternate evolution, change in environmental conditions, predators and diseases

221 (c)

The world is facing accelerated rates of species extinctions, largely due to human interference. There are four major causes of biodiversity loss called the evil quartet, *i.e.*, habitat loss, over exploitation, Alien species invasion and coextinction

222 **(a)**

The expanded form of IUCN of IUCNNR is international Union for Conservation of Nature and Natural Resources

223 (d)

According to the species area relations concept, the number of species in an area increases with the size of that area

224 **(c)**

In general species diversity decreases as we move away from the equator towards the poles. With very few exceptions, tropics harbour more species than temperate or polar areas. Latitudinal range for tropics is 23.5°N to 23.5°S

225 (d)

()		
Column I	Column II	
Rhinoceros	Kaziranga	

	-
Tiger project	Bandipur
in Karnataka	
Assemblage	Bharatpur
protection	
Silent valley	Tropical
	evergreen
	forest

226 **(b)**

The IUCN red list (2004) documents the extinction of 784 species (including 338 vertebrates 359 invertebrates and 87 plants) in the last 500 years

227 **(a)**

Biodiversity in not uniform throughout the world because it is affected by many factors Barring arid/semiarid and aquatic habitats, biodiversity shows latitudinal and altitudinal gradients. Biodiversity is low at the poles. It increases in temperate areas but reaches the maximum in tropics. Biodiversity increases from poles to equator, *i.e.*, from high to low latitude and *vice-versa*

Biodiversity increases from higher altitude to lower altitude that is from mountain top to sea level and *vice-versa*

A decrease in species diversity occurs as we ascend a high mountain due to drop in temperature (lapse temperature being 6.5°C for 1 km or 1000 m) and greater seasonal variability

228 **(b)**

The 2000 Red List contains assessments of more than 18,000 species, 11,000 of which are threatened

The Red List also provides information to international agreements such as the convention on Biological diversity and the convention on International Trade in Endangered Species of Wild Fauna and Flora

According to the Red List, in India

44 plant species – critically endangered

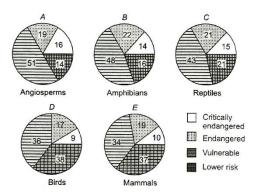
113 plant species – endangered

87 plant species – vulnerable

18 animal species – critically endangered

54 animal species – endangered

143 animal species – vulnerable



According to Red List

10% mammals, 9%, 15% reptiles, 16%

amphibians and 16% angiosperms are facing very high list of extinction in the wild and can become extinct any moment in the immediate future.

The percentage number of endangered species in the list of threatened species is 19% mammals, 17% birds, 21% reptiles, 22% amphibians and 19% angiosperms.

Percentage of depleted (vulnerable) species out of the total threatened species is 34% mammals,

36% birds, 43% reptiles, 48% amphibians and 51% angiosperms.

The given data shows the maximum percentage of endangered species belongs to the group of angiosperms

229 **(a)**

The species diversity of plant on earth will be about 22%.

230 (d)

The Nile perch, a voracious predator introduced to lake Victoria as a food fish, has already extinguished over one hundred species of native cichlid fish there.

231 **(c)**

In biodiversity hotspots, interspecific competition is high.