THE LIVING WORLD

1.	Biosystematics aims at				
	a) The classification of organism based on their evolutionary history and establishing their phylogeny on				
	the totality of various parameters from all fields of studies				
	b) Identification and arrangements of organism on the basis of their cytological characteristics				
	c) The classification of organisms based on broad morphological characters				
	d) Delimiting various taxa of organisms and establ	shing their relationships			
2.	Phenetic classification of organism is based on				
	a) Observable characteristics of existing organisms	S			
	b) The ancestral lineage of existing organism				
	c) Dendrogram based on DNA characteristics				
	d) Sexual characteristics				
3.	A is a collection of pressed, dried and preserved	d plantsB labelled arran	ged systematically for		
	further reference				
	A and B in the above statement refers to				
	a) A-Herbarium; B- b) A-herbarium; B-	c) A-Museum; B-mounte	ed d) A-Garden; B-mounted		
	mounted on thin film mounted on a paper	on a iron sheet	on a paper sheet		
	sheet				
4.	Arrange the following in the ascending order of Lir	naean hierarchy.			
	a) Kingdom-Order-Species-Genus-Class-Family-Ph	ylum			
	b) Kingdom-Family-Genus-Species-Class-Phylum-G	Order			
	c) Kingdom-Phylum-Class-Order-Family-Genus-Sp	ecies			
	d) Species-Genus-Family-Order-Class-Phylum-King	gdom			
5.	Where was the first herbarium set up?				
	a) London in Great Britain	b) Pisa in Italy			
	c) New York in USA	d) Tokyo in Japan			
6.	Animal of the same phylum are grouped below. Ch	oose the incorrect group fro	om given below option		
	a) Shark, snake, whale, reptiles				
	b) Insect, spider, shrimp				
	c) Snail, squid, slug				
	d) Earthworm, millipede, leech				
7.	Systematic botany means	13.4			
	a) System analysis	b) Systematic arrangeme	•		
	c) Systematic study of organelles and tissues	d) Methodical study of p			
0	WELL ALLEN L. N. LW. C.	identification, naming	and classificartion		
8.	What is the symbol of Bombay Natural History Soc	1700 FO	D.H C		
0	a) Kingfisher b) Eagle	c) Hornbill	d) Hawaiin Goose		
9.	Which is called 'sexual system' of classification?		1) m 11		
10	a) Bentham and Hooker b) Tippos	c) Linnaeus	d) Takhtajan		
10.	Identify from the following the only taxonomic cate				
4.4	a) Genus b) Species	c) Phylum	d) Kingdom		
11.	Process of metabolism leads to	L) D			
	a) Growth	b) Development			

	c) Functions of living body	d) All of these	
12.	Which of the following taxonomic ranks contain orga	inism most similar to one a	nother?
	a) Class b) Genus	c) Family	d) Species
13.	Which is first step in taxonomy?		
	a) Description of the organism		
	b) Identification of the organism		
	c) Nomenclature of the organism		
	d) Classification of the organism		
14.	What is the prime source of taxonomic studies?		
	a) Collection of actual specimens of organisms species	es	
	b) Identification of actual specimen of organism spec	ries	
	c) Both (a) and (b)		
	d) None of the above		
15.	is a book (taxonomic acid) which contain informat	ion about habitat, distribu	tion, climate description
	and index of plant found in a particular area		
	a) Manual b) Flora	c) Monograph	d) Key
16.	In hierarchial classification, class occupied a place be	시간 회사는 가는 사람이 아니라 아내 생물이 되었다.	
	a) Kingdom and phylum b) Order and family	c) Phylum and order	d) Family and genus
17.	Select the correct option from the following	-,,	-,,
O-1111111	a) Mule can reproduce		
	b) Worker bee undergoes reproduction to generate r	new progeny	
	c) Mule and worker bee do not reproduce	ion progeny	
	d) None of the above		
18.	Why hierarchiral taxonomic system is used?		
10.	a) As each higher taxonomic category contains its be	low groups groups/catego	ries
	b) It is helpful to established classifications	ion Broado Broado, carego	
	c) All taxonomic categories reflect common habitats		
	d) Taxonomic group shows similar characters and ha	ove no evolutionary relatio	nshin
19	Biological organization in living state is at	ive no evolutionary relatio	iii ii
12.	a) Sub-microscopic level b) Atomic level	c) Cellular level	d) Mixture level
20	Arrange the following in ascending similar character		a) Mixture level
20.	I. Family II. Genus III. Class IV. Species	istic	
	a) Class < Family < Genus < Species	b) Family < Class < Genus	< Species
	c) Species < Genus < Family < Class	d) Class < Genus < Species	371
21	Among the following choose the properties shown by	•	
21.	I. growth	y the hving organism exera	Sivery.
	II. increase in mass		
	III. self-replication ability		
	IV. response to touch stimuli		
	a) I and II b) I, II and III	c) I, III and IV	d) I, II, III and IV
22.	Which one of the following feature is shared by all liv		
22.	a) Mode of nutrition	ing organism at an merare	inai ievei
	b) Cellular organization		
	c) Nature of protoplasmic-composition		
22	d) Growth by cell division	alanta D laballad arres	rod greatomatically for
23.	A is a collection of pressed, dried and preserved p	nantsb labelled arrang	ged systematically for
	further reference		
	A and B in the above statement refers to		
	a) A-Herbarium; B-mounted on thin film		
	nia nornariumi k. mounted on a nanor choof		

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	c) A-Museum; B-mounted on a iron sheet		
	d) A-Garden; B-mounted on a paper sheet		
24.	By which chemical specimen for herbaria are trea	ted to prevent fungal a	attack
	a) 0.1% mercuric chloride		
	b) 0.1% mercurous chloride		
	c) Carbon disulphide		
	d) Acetic acid		
25.	Who proposed binomial system of nomenclature?		
20.	a) Candolle b) Linnaeus	c) Bentham	d) Hutchinson
26.	Term 'Taxonomy' was coined by	c) bentham	a) Hateimison
20.	a) De Candolle b) Takhtajan	c) Linnaeus	d) Aristotle
27	A group of interconnected genera is called a	cj Elilliacus	u) mistotic
27.	a) Family b) Class	c) Phylum	d) Order
28.	True regeneration is found in	c) r nyium	u) order
20.	a) Amoeba b) Hydra	c) Planaria	d) Bacteria
20	Select true statement from the following and choo		
29.	I. Human's scientific name is <i>Homo sapiens</i>	se the right answer if	om the option given below
	II. Genera Plantarum is written by John Ray		
	III. Highest taxonomic categories is division		
	IV. Taxonomic group of any rank is taxon		
	V. A group of closely related species of organism r		
	VI. The term 'systematic' was coined by de Candol		1) 11 111 1111
0.0	a) II, III, IV and VI b) I, III, V and VI	c) I, IV and V	d) II, III and VI
30.	Third name in trinomial nomenclature indicate		
	a) Species		
	b) Sub-species		
	c) Sub-genus		
	d) Ecotype of organism		
31.	Who first proved that virus was made up of a nucl	7	
	a) Griffith	b) WM Stanley	
PROGRAM:	c) Dr Salvador Huria and Dr Max Delbruk	d) Dr NW Pjrie and	d Dr FC Bawden
32.	The suffix 'phyta' indicates		
	a) Family b) Class	c) Order	d) Division
33.	The genus Felis includes		
	a) Tiger b) Fish	c) Cat	d) Frog
34.	Who proposed binomial system of nomenclature?		
	a) Candolle b) Linnaeus	c) Bentham	d) Hutchinson
35.	Where was the first herbarium set up?		
	a) London in Great Britain		
	b) Pisa in Italy		
	c) New York in USA		
	d) Tokyo in Japan		
36.	A group of organisms with similar trait of any rank	k is	
	a) Taxon b) Family	c) Genus	d) Species
37.	Term 'New Systematic' was given by		
	a) Julian Huxley b) Bateson	c) Linnaeus	d) Darwin
38.	A genus with a single species is called	50.	#3
	a) Typical b) Polytype	c) Monotype	d) Syntype
39.	MABP stands for	2555 S	950 NOO REGIO
	a) Man and Biosphere Programme		

	b) Man and Biosphere Protectionc) Man and Biosphere Conservation and	Protection		
	d) All of the above			
40.	Which of the following is correctly seque	enced?		
	a) Phylum, class, order, family		b) Phylum, order, class, ge	enus
	c) Phylum, class, family, order		d) Phylum, order, family,	class
41.	A germplasm is a			
	a) Collection of seeds or plants consists	diverse	b) Collection of specimen	s of all the species of
	alleles of all genes in a crop		botanical garden	
	c) Collection of hybrid varieties of plant	S	37.5	n of threatened species of
40			group	
42.	Species is considered as	•		
	a) Largest taxon of taxonomy/classificat	ion		
	b) Key of taxonomy/classification			
	c) Smallest taxon of faxonomy/classificad) Both small and largest unit of taxonomy		ation	
12	Two or more species which occupy the			
43.	a) Sympatric b) Allotropic	aine or over	c) Sibling	d) Sub-species
44	Who coined the term 'Phylum'?		c) Sibiling	u) sub-species
	a) Cuvier b) Aristotle		c) Ernst Haeckel	d) Hooker
45.	Which of the following statements regar	ding univers		and the second of the second
	a) The first word in a biological name re	1970		
	b) The first word denoting the genus sta			
	c) Both the words in a biological name,		5	rlined
	d) Biological names are generally in Gre			
46.	Category among following is			
	a) Species b) Malvaccae		c) Thalmiflorae	d) Dicotyledonae
47.	'SystemaNaturae' was written by			
	a) Ernst Mayr b) Carolus Lin		c) R H Whittaker	d) W M Stanley
48.	What is the symbol of Bombay Natural I	listory Socie		
	a) Kingfisher b) Eagle		c) Hornbill	d) Hawaiin Goose
49.	Two different genera are classified in th	e same taxor	nomic category family. Whi	ch statement is correct
	about their classification?		13.4.100	
	a) The same class, but different species		b) A different class and di	
F 0	c) The same phylum, but different class Metabolism can be best defined as		d) A different kingdom an	a different phylum
50.	a) The process in which a chemical is fo	rmad incida	a hady	
	b) The process in which a chemical is de			
	c) The sum total all of chemical reaction		5	
	d) A complex construction process only	5 only occur	ing in a body	
51.	Among the following choose the proper	ies shown b	v the living organism exclu	sively?
	I. growth		,	
	II. increase in mass			
	III. self-replication ability			
	IV. response to touch stimuli			
	a) I and II b) I, II and III		c) I, III and IV	d) I, II, III and IV
52.	In hierarchial classification, class occupi	ed a place be	etween	
	a) Kingdom and phylum b) Order and		c) Phylum and order	d) Family and genus
53.	Choose the wrong statements regarding			
	a) The first word in a biological name re	presents the	genus	

	b) The first word denotir	ng the genus starts with a ca	pital letter	
	c) Both the words in a bi	ological name, when handw	ritten are separately unde	rlined
	d) Biological names are g	enerally in English and wri	tten in italics	
54.	Who set up the first herb	arium?		
	a) Engler and Pranti	b) Bentham	c) Luca Ghini	d) Theophrastus
55.	Who is regarded as Fathe	er of Zoology and Biology?	Vegetalia in to distribution representative	and the first consistent of the construction o
	a) Aristotle	b) Theophrastus	c) Darwin	d) Linnaeus
56.	- NO SET IN A CONTRACT CONTRAC	ich is a common phenomen	South the Control of the State	
	show the feature of grow	(A.E.)	, , , , , , , , , ,	0 0
	a) Increase in mass		b) By cell division	
	c) Increase in replication	rate	d) By cell differentiation	
57.			-,-,-,	
	a) Family	b) Class	c) Phylum	d) Order
58.		ascending similar character		,
	I. Family II. Genus III. C			
	a) Class < Family < Genus			
	b) Family < Class < Genus			
	c) Species < Genus < Fam			
	d) Class < Genus < Specie			
59.	- 370	ition the unicellular prokar	votic organisms were classi	ified under kingdom
07.	a) Protista	b) Monera	c) Animalia	d) Plantae
60.	Largest herbarium in Ind		c) minimum	a) Trained
00.	a) Madras Herbarium Co			
		arium (Indian Botanical Ga	rden) Sibnur, Kolkata (WB)
		l Botanical Research Institu		J ii
	d) Forest Research Instit		te, backnow (or)	
61.		, the usual taxonomic hiera	rchy is not followed?	
01.	a) Polypetalae and Gamo		b) Gamopetalae and Mon	ochlamydae
	c) Monochlamydae and r		d) None of the above	oemaniy dae
62.		ed (with english) and derive		
·	a) Bold and English	ou (mun onghon) una uom		
	b) Italics and Latin			
	c) Italics and German			
	d) Italics and French			
63.	What is the basic unit of	classification?		
	a) Family	b) Order	c) Species	d) Genus
64.	Solanum and Panthera		.,	.,,
	a) Genus and species	b) Genus and genus	c) Species and species	d) Only species
65.		species was formulated by	., ., ., ., ., ., ., ., ., ., ., ., ., .	.,, .F
	a) Mayr	b) Stebbins	c) Heywood	d) Love
66.		on act came into force in/w	150 (5)	-7
	a) 1978	b) 1982	c) 1972	d) 1986
67.	Biodiversity can be best		3) 17/2	u) 1700
٠	a) Occurrence of number			
	b) Species and ecosystem			
	c) Variety of life in an eco	The Address of the Control of the Control		
	(F)	ies and ecosystem of a give	n region	
68.	Who had written System	ia Naturae!		
68.	Who had written System a) Ernst Mayr	b) Carolus Linnaeus	c) RH Whittaker	d) WM Stanley

69.	Among the following which is a common phenome	enon exhibited by living and	non-living organisms to
	show the feature of growth? a) Increase in mass		
	b) By cell division		
	c) Increase in replication rate		
	d) By cell differentiation		
70	Who coined the term 'Species'?		
70.	a) John ray b) Aristotle	c) Linnaeus	d) Cuvier
71.	Binomial nomenclature means that every organism	15%	u) cuviei
/ 1.	a) Two names one scientific and other popular	II IIas	
	b) One scientific name consisting of a generic and	a specific apithat	
	c) One name given by two scientist	a specific epithet	
	d) Two names, one Latinize and other of the person	m	
72	Which one among the following is accurately arran		V
12.	a) Species → Family → Class → Order → Division	nged in descending specificit	у
	b) Species → Genus → Division → Class → Kingdon	n	
	c) Species → Genus → Family → Order → Class	•	
	d) Class → Order → Family → Genus → Species		
73.	What is illustrated by the statement 'Nothing lives	forever, vet life continues'?	
	a) Metabolism b) Embryogenesis	c) Reproduction	d) Replication
74.	Regeneration was first discovered in	-)	.,
	a) Hydra b) Planaria	c) Sponges	d) <i>Amoeba</i>
75.	Select the correct statement from the following sta		
	I. Increase in mass and increase in number of indiv		ics of growth
	II. Metabolic reactions can also be demonstrated o		
	III. 'Response to stimuli' is a defining property of l	, A50	
	a) I and II b) II and III	c) I and III	d) I, II and III
76.	Which one of the following has a real existence?		
	a) Genus b) Species	c) Family	d) Order
77.	In plants growth occur by throughout their life s	576 976	
	Choose an appropriate option to complete the give		
	a) Cell dedifferentiation b) Cell differentiation		d) None of these
78.	In which of the following, metabolic reactions take	e place?	
	a) In living organism only		
	b) Both in living and non-living organism		
	c) In isolated cell free systems		
	d) Both (a) and (c)		
79.	Two or more species which occupy the same or ov	erlapping area are known as	;
	a) Sympatric b) Allotropic	c) Sibling	d) Sub-species
80.	Third name in trinomial nomenclature indicate		
	a) Species b) Sub-species	c) Sub-genus	d) Ecotype of organism
81.	Family placed between		
	a) Genus and species b) Order and class	c) Class and genus	d) Order and genus
82.	A defining property or characteristic of living orga	nisms is	
	a) Increase in mass	b) Development	
	c) Response to external stimuli	d) Growth	
83.	is a book (taxonomic acid) which contain inform	nation about habitat, distribu	tion, climate description
	and index of plant found in a particular area	1477-07-11 21	******
	a) Manual b) Flora	c) Monograph	d) Key
84.	Natural system of classification is given by		

	-> D	h) Cl I i	-) Charles Damis	d) For alass and Donasti
0.5	a) Bentham and Hooker		c) Charles Darwin	d) Engler and Prantl
85.		classify living being was giv		J) D II MILITAN
06	a) J B S Haldane	b) G G Simpson	c) E Mayr	d) R H Whittaker
86.		nals and plants reproduction		
	a) Mutually exclusive eve	nts	b) Synonymous events	
07	c) Both (a) and (b)	10 11 11	d) None of the above	2
87.			e morphological characters	
	a) Artificial	b) Natural	c) Phylogenetic	d) Both (A) and (c)
88.		ed by Sir Julian Huxley is al		
	a) Phenetics	b) Cladistics	c) Biosystematics	d) Numerical taxonomy
89.	Who coined the term 'Phy			A N HOUSE VESTOR
202000	a) Cuvier	b) Aristotle	c) Ernst Haeckel	d) Hooker
90.	Evolutionary history of an			*** *** ******************************
15200	a) Phylogeny	b) Ancestry	c) Paleontology	d) Ontogeny
91.		and eukaryote is based on		
	a) Cell organelles only		c) Nucleus only	d) All of these
92.		of classification was put for	5	
	a) Carolus Linnaeus		b) George Bentham and Jo	
	c) Aristotle		d) Adolf Engler and Karl F	Prantl
93.	- The Mark of the Control of the Con	ned by		
	a) De Candolle	b) Takhtajan	c) Linnaeus	d) Aristotle
94.	Largest herbarium in Indi	la is		
	a) Madras Herbarium Coi	mbatore (TN)		
	b) Central, National Herba	arium (Indian Botanical Ga	rden) Sibpur, Kolkata (WB)	
	c) Herbarium of National	Botanical Research Institu	te, Lucknow (UP)	
	d) Forest Research Institu	ıte, Dehradun (UA)		
95.	Who set up the first herba	arium?		
	a) Engler and Pranti	b) Bentham	c) Luca Ghini	d) Theophrastus
96.	Phylogenetic system of cl	assification is based on		
	a) Evolutionary relations	hips	b) Morphological features	5
	c) Chemical constituents		d) Floral characters	
97.	77. A living organism can be easily distinguished from non-living on the basis of			
	a) Responsiveness to touc	ch stimuli		
	b) Movement and growth			
	c) Reproduction			
	d) Interaction with enviro	onment and progressive ev	olution	
98.	The term 'Taxonomy' was	introduced by		
	a) de Candolle	b) Bentham and Hooker	c) Linnaeus	d) Huxley
99.	A species is a group of org	ganisms which		
	a) Can interbreed freely			
	b) Do not interbreed			
	c) Can live together			
	d) Can interbreed occassi	onally		
100			ation of genetic relationshi	p?
	a) Experimental taxonom		S .	•
	b) Numerical taxonomy	•		
	c) Cytotaxonomy			
	d) Biochemical taxonomy			
101	. Who coined the term 'Spe			
	a) John ray	b) Aristotle	c) Linnaeus	d) Cuvier

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102. Which one of the followi		ooth plants and animals?	
a) Herpetology	b) Saurology	c) Taxonomy	d) Ichthyology
103. Which of the following so		by fragmentation (asexual	mode of reproduction)?
a) Amoeba, fungi and ear			
	gae and protonema of moss	es	
c) <i>Hydra</i> , fungi, <i>Amoeba</i>			
d) Earthworm, bacteria			.1 1
104. Which one of the taxono		ensive account of complete	compiled information of any
one genus or family at a	•	a) Harbarium	d) Managraph
a) Taxonomic key 105. A 'texa' differ from 'taxon	b) Flora	c) Herbarium	d) Monograph
a) Being a higher taxonob) Being a lower taxono	1000 F. C.		
c) Being a plural of taxon			
d) Being singular of taxo			
106. What name would be sug		ification of plants?	
a) Phylum	b) Sub-division	c) Division	d) Both (b) and (c)
107. Taxon is a/an	b) sub division	c) Division	a) both (b) and (c)
a) Group of same species	3	b) Any rank in taxonomi	c hierarchy
c) Group of similar gene		d) Sub-division of kingdo	7.5
108. Phylogenetic system of c			\$40.00
a) Linnaeus	b) Bentham	c) Hutchinson	d) Theophrastus
109. Who has written the boo		and the state of t	
a) Hutchinson	b) Lamarck	c) John Ray	d) Linnaeus
110. A taxon is a	5 - 2 - 1 - 120 - 1		STATE AND A CONTROL OF STATE O
a) Group of related speci	ies	b) Group of related famil	ies
c) Type of living organis	m	d) Taxonomic group of a	ny ranking
111. The genus Felis includes	5		
a) Tiger	b) Fish	c) Cat	d) Frog
112. Who is regarded as Fath			
a) Aristotle	b) Theophrastus	c) Darwin	d) Linnaeus
113. Where labelling is done/			
a) Lower RHS	b) Lower LHS	c) Upper RHS	d) Upper LHS
114. A germplasm collection i			2. CONT. 1. CONT. ON 1. CONT.
	ns of all the species of an a	rea in a herbarium or botar	ncal garden
b) Collection of modern	A CONTRACTOR OF THE PROPERTY O	C . 11	
[14] :	seeds having diverse allele	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	0.0
115. 'Ordines Anomali' of Ben	pollen of rare and threaten	ed species of a group of an	ea
	abnormal forms of growth a	and development	
b) Plants represented on		ina aevelopinent	
14 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	e literature but which Bent	ham and Hooker did not se	e in original
	ould not be placed satisfactor		e in original
116. Growth in unicellular org	annon all in the management of the control of the c		
a) Counting the mass of	57		
The state of the s	of nutrient absorb by livin	g organism	
c) Growth can not be ob	· · · · · · · · · · · · · · · · · · ·		
	ply counting the number o	f cells under microscope	
117. Which of the following a	(5.14.5). Sign		
I Deconces to stimuli			

II. Increases in ma			
	e number of individuals		
IV. Increases in w			
a) II and IV	b) III and IV	c) II and III	d) I, II, III and IV
118. Biodiversity can b			
	number and type of organisms		
	osystem of a region		
c) Variety of life i			
d) Totality of gene	es, species and ecosystem of a g	iven region	
119. Scientific name ar	e printed (with english) and de	rived from	
a) Bold and Englis	sh b) Italics and Latin	c) Italics and German	d) Italics and French
120. A living organism	can be easily distinguished from	m non-living on the basis of	
a) Responsivenes	s to touch stimuli	b) Movement and grow	th
c) Reproduction		d) Interaction with envi	ronment and progressive
		evolution	
121. In five kingdom cl	assification the unicellular prol	karyotic organisms were clas	ssified under kingdom
a) Protista	b) Monera	c) Animalia	d) Plantae
122. In angiosperms fl	oral features are commonly use	ed for identification, why?	
a) Flower can be	preserved easily		
b) Flower are attr	active to work with		
c) Flower have ar	oma and different colour		
d) Reproductive p	oarts are more conservative		
123. True regeneration	ı is found in		
a) Amoeba	b) <i>Hydra</i>	c) Planaria	d) Bacteria
124. The basic unit of o	classification is		
a) Species	b) Genus	c) Family	d) Phylum
125. Where is Biosphe	re Reserve Simlipal located?		
a) Kerala	b) Odisha	c) Asom	d) Sikkim
126. Where labelling is	done/pasted on herbarium sh	eet?	
a) Lower RHS	b) Lower LHS	c) Upper RHS	d) Upper LHS
127. Who is regarded a	as Father of Taxonomy?		
a) Hooker	b) Linnaeus	c) Aristotle	d) De Candolle
128. Bionomial nomen	clature was first issued in		
a) Systema Natur	ae b) Genera Plantarum	c) Genera Animalium	d) Species Plantarum
129. National wildlife	protection act came into force in	n/was inacted in	
a) 1978	b) 1982	c) 1972	d) 1986
130. A taxon is a			
 a) Group of relate 	d species		
b) Group of relate	d families		
c) Type of living o	organism		
d) Taxonomic gro	up of any ranking		
131. A 'texa' differ from	n 'taxon' due to		
a) Being a higher	taxonomic category than taxon		
b) Being a lower t	axonomic category than taxon		
c) Being a plural o	of taxon		
d) Being singular	of taxon		
132. Correct name is			
a) brassica indic	а	b) Magnifera Indica	
c) SOLANUM MEI	ONGINA	d) Mimosa Pudica	
133. Increase in body i	nass can be considered a criter	ion for growth	

	a) In living being	b) Non-living being	c) Both (a) and (b)	d) None of these	
134	. Who is regarded as Fathe	r of Taxonomy?			
	a) Hooker	b) Linnaeus	c) Aristotle	d) De Candolle	
135	. Which one of the followin	g taxonomic categories top	the hierarchy of categorie	s?	
	a) Order	b) Division	c) Class	d) Family	
136	. In five kingdom classificat	tion, the eukaryotes were a	ssigned under how many k	tingdoms?	
	a) Only four kingdom				
	b) All five kingdom				
	c) Only two kingdom				
	d) Only three kingdom				
137	. Which taxonomical aid pr	ovide all information abou	t a particular taxon like ord	ler or family	
	a) Herbarium	b) Catalogue	c) Taxonomic key	d) Monograph	
138	. Binomial system of nome	nclature was given by			
	a) Engler	b) Linaeus	c) Prantl	d) Both (a) and (C)	
139	. In which of the following,	metabolic reactions take p	lace?		
	a) In living organism only				
	b) Both in living and non-	living organism			
	c) In isolated cell free sys	tems			
	d) Both (a) and (c)				
140	. What is the old name of Ir	ndian Board of wildlife			
	a) National Board of Wildlife Animal				
	b) Central Board of Wildlife				
	c) Board of Wildlife				
	d) Wildlife Protection Boa	ard			
141	. According to binomial no		e of an organism consists of	f	
	a) Generic name	b) Specific epithet	c) Both (a) and (b)	d) None of these	
142		of ranks or levels in classif			
	a) Category	b) Order	c) Genera	d) Taxon	
143	. Species is considered as				
	a) Largest taxon of taxon				
	b) Key of taxonomy/class	ification			
	c) Smallest taxon of faxon	omy/classification			
	d) Both small and largest	unit of taxonomy/classifica	ation		
144	. Which one of the followin	g is the feature of phylum-	Chordata is also exhibited l	oy adult tunicate?	
	a) Possession of visceral s	slits	b) Possession of a ventral	chord	
	c) Possession of closed va	scular system	d) Possession of ventral to	ubular nervous system	



a) Plantae, Anglosperm, Monocotyledons

145. Choose the correct classification for the given plant

- b) Plantae, Anglosperm, Dicotyledons
- c) Plantae, Gymnosperm, Monocot
- d) Plantae, Pteridophytes, Dicot







146. Scientific study of diversity of organism	s and their evolutionary relationship	o is
a) Morphology b) Anatomy	c) Taxonomy	d) Systematics
147. Different (various) group of ranks or le		
a) Category b) Order	c) Genera	d) Taxon
 148. The concept that monocots are more pr a) Bentham and Hooker b) Theophra 149. A defining property or characteristic of 	stus c) Aristole	d) Engler and Prantl
a) Increase in mass		
b) Development		
c) Response to external stimuli		
d) Growth		
150. What is the old name of Indian Board of	wildlife	
a) National Board of Wildlife Animal		
b) Central Board of Wildlifec) Board of Wildlife		
d) Wildlife Protection Board		
151. Species are consider as		
a) Artificial concept of human mind wh	ch cannot be defined in absolute ter	ms
b) Real units of classification devised by		
c) Real basic units of classification		
d) The lowest units of classification		
152. In plants growth occur by throughou	their life span.	
Choose an appropriate option to comple	ete the given NCERT statement	
a) Cell dedifferentiation b) Cell differ	entiation c) Cell multiplication	d) None of these
153. Growth in unicellular organisms can be	observed by	
a) Counting the mass of cultured cells		
b) Analysing the amount of nutrient abs	orb by living organism	
c) Growth can not be observed		
d) <i>In vitro</i> culture by simply counting th	e number of cells under microscope	
154. Largest herbarium in the world is	Comovio	
a) Conservatory and Botanical Garden,b) New York Botanical Garden	Geneva	
c) Royal Botanical Garden, Kew (Londo	n)	
d) British, Museum of Natural History		
155. Taxonomic hierarchy refers to		
a) Stepwise arrangement of all categori	es for classification of plants and ani	mals
b) A group of senior taxonomists, who		
c) A list of botanists or zoologists, who	그런 아이들 아이는 아이들 아는 그릇이 되었다. 그 아이들 아이들 아이들 아이들 때문에 가지 않는데 아이들이 없다.	
d) Classification of a species based on fo	ssil record	
156. A perennial shrub has compound leaves	and solitary zygomorphic and epig	ynous flowers. Each flower
reveals dichlamydeous condition with r		n exalbuminous seeds. What is
the ratio of advanced and primitive cha		
a) 1:2 b) 2:3	c) 1:1	d) 3:2
157. A germplasm is a		
a) Collection of seeds or plants consists	and the control of th	
b) Collection of specimens of all the spe	10 To 10	
 c) Collection of hybrid varieties of plant d) Seed or pollar collection of threatener 		
158. Which one of the following has a real ex		
a) Genus b) Species	c) Family	d) Order
-7		1.55m

159. Binomial system of classification was based on

- a) Embryology
- b) Morphology
- c) Cytology
- d) Anatomy

160. Which is not a category?

- a) Asteraceae/Fabaceae b) Species
- c) Phylum
- d) Class

161. Select true and false statement and choose correct answer from the option given below

- I. Taxon is a group of related organism
- II. Homo sapiens is the scientific name of man
- III. Royal Botanical Garden is located in Bristol (England)
- IV. Dudhwa National Park is located at Lakhimpur in UP
- V. There are about 89 wildlife sanctuaries and 492 National Parks in India
- VI. When specific name is identical to generic name it is an example of tautonym
- a) True-I, III, V, False-II, IV, VI

b) True-I, II, III, False-IV, V, VI

c) True-II, IV, VI, False-V, III, I

d) True-VI, V, IV, False-III, II, I

162. Biological organization in living state is at

a) Sub-microscopic level

b) Atomic level

c) Cellular level

d) Mixture level

163. Which of the following are considered as the twin characteristics of growth?

- I. Responses to stimuli
- II. Increases in mass
- III. Increases in the number of individuals
- IV. Increases in width
- a) II and IV
- b) III and IV
- c) II and III
- d) I, II, III and IV

164. Linnaean system of plant classification is based on

- a) Morphological and anatomical characters
- b) Evolutionary trends

c) Floral characters

d) None of the above

165. A group of inbreeding plant or animals is

- a) Order
- b) Species
- c) Family
- d) Genus

166. Binomial nomenclature means

- a) A scientific name, which consist of two words giving a generic name and a specific name
- b) One name is given by two scientists
- c) Two name, one vernacular and one scientific
- d) Two name, one in Latin and other is a named of person
- 167. Tautonym is
 - a) Unscientific explanation of a phenomenon
- b) Common name used as a scientific name

c) Nonlatinised name

d) Same name for genus and species

168. What size of herbarium sheet and label is recommended generally?

a) 30×40 cm, 6×12 cm

b) 29×41 cm, 7×14 cm

c) 30×45 cm, 7×12 cm

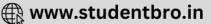
d) 20×30 cm, 5×10 cm

169. Choose the correct classification for the given plant



- a) Plantae, Anglosperm, Monocotyledons
- b) Plantae, Anglosperm, Dicotyledons





c) Plantae, Gymnos	sperm, Monocot		
d) Plantae, Pterido	phytes, Dicot		
170. Which one is corre	ctly written scientific name	?	
a) Panther Tigris		b) Mangifera indica	
c) Pucnthera Leo		d) Columnba LIVEA	
171. New systematics in	troduced by Sir Julian Huxl	ey is also called as	
a) Phonetics		b) Cladistics	
c) Biosystematics		d) Numerical taxonor	ny
172. Which one of the ca	ategory contain the least sin	nilar characteristic to one an	other?
a) Class	b) Order	c) Family	d) Division
173. Who first proved th	nat virus was made up of a r	nucleic acid and protein?	
a) Griffith	b) WM Stanley	c) Dr Salvador Huria	and d) Dr NW Pjrie and Dr FC
		Dr Max Delbruk	Bawden
174. In five kingdom cla	ssification, the eukaryotes v	vere assigned under how ma	any kingdoms?
a) Only four kingdo	om b) All five kingdom	c) Only two kingdom	d) Only three kingdom
175. Select the correct s	tatement from the following	g statements	
I. Increase in mass	and increase in number of i	ndividuals are twin characte	ristics of growth
II. Metabolic reacti	ons can also be demonstrate	ed outside the body in isolate	ed cell-free systems
III. 'Response to sti	muli' is a defining property	of living organisms	
a) I and II	b) II and III	c) I and III	d) I, II and III
176. In Mangifera indi	ca, the word Mangifera is	a	
a) Genus	b) Species	c) Variety	d) Order
177. In majority of high	er animals and plants repro	duction and growth are	
a) Mutually exclusi	ve events		
b) Synonymous ev	ents		
c) Both (a) and (b)			
d) None of the abov	<i>7</i> e		
178. Binomial nomencla			
		ds giving a generic name and	a specific name
	en by two scientists		
	vernacular and one scientifi		
	n Latin and other is a name		
	The company of the control of the co	about a particular taxon like	
a) Herbarium	b) Catalogue	c) Taxonomic key	d) Monograph
0.000	nition of a species depends of		
	l distribution of two groups		
T 바로 하는 것은 THE THE THE PROPERTY OF THE PROPER	olation of two groups of org		¥
		tween the two groups of org	ganism
그 그 그 그 그 그 그 그리다면 하는 것 같아 없는 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	e adaptation of two groups		
1.50		itrogen fixing bacteria and m	nethanogenic bacteria in five
kingdom classificat) M	D.F.
a) Plantae	b) Protista	c) Monera	d) Fungi
182. What is the basic u		a) Cuanina	d) Comus
a) Family	b) Order	c) Species	d) Genus
183. Which of the follow		a) W:	d) B-4h (-) d (h)
a) Division	b) Phylum	c) Viruses	d) Both (a) and (b)
	aryota and eukaryote is bas	eu on	
a) Cell organelles o			
b) Chromosome on	пу		
c) Nucleus only			

	d) All of these									
	185. Cladistics can be defines as									
	a) The relationship between sub-species and spec	ies								
b) Relationship between two most forward races										
	c) Relationship between endangered and survivin									
	d) Method of classification that attempt to interfac	e phylogenetic relationship								
	186. Why hierarchiral taxonomic system is used?									
	a) As each higher taxonomic category contains its	below groups groups/categorial	ories							
	b) It is helpful to established classifications									
	c) All taxonomic categories reflect common habita		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4							
	d) Taxonomic group shows similar characters and	· · · · · · · · · · · · · · · · · · ·								
	187. Which one among the following is accurately arran	ATT CONTROL OF THE CO	Parties and the second second							
	a) Species \rightarrow Family \rightarrow Class \rightarrow Order \rightarrow Division									
	c) Species \rightarrow Genus \rightarrow Family \rightarrow Order \rightarrow Class		25711							
	188. Viral genome when incorporated and integrated w	(F)								
	a) Prophages b) DNA	c) RNA	categories relationship reificity s → Division → Class → Kingdom Family → Genus → Species s referred as d) Both (a) and (c) d) Division d) Species as d) Hierarchy d) Genus d) Amoeba							
	189. Process of metabolism leads to									
	a) Growth									
	b) Development									
	c) Functions of living body									
	d) All of these									
	190. The suffix 'phyta' indicates	30 2 4								
	a) Family b) Class	c) Order	d) Division							
	191. A group of organisms with similar trait of any rank		D. a.							
	a) Taxon b) Family	c) Genus	d) Species							
	192. Ascending or descending arrangement of taxonom									
	a) Classification b) Key	c) Taxonomy	d) Hierarchy							
	193. A group of inbreeding plant or animals is		1200							
	a) Order b) Species	c) Family	d) Genus							
	194. Regeneration was first discovered in									
	a) Hydra b) Planaria	c) Sponges	, 550							
	195. What is illustrated by the statement 'Nothing lives									
	a) Metabolism b) Embryogenesis	c) Reproduction	d) Replication							
	196. ICVCN stands for									
	a) International Code of Virus Nomenclature									
	b) International Code of Valuation in Nomenclatur									
	c) International Code of viral Classification and No	omenclature								
	d) International Code of Virulence Nomenclature									
	197. In Solanum tuberosum, first and second word sta	nd for, respectively								
	a) Genus, generic name									
	b) Specific epithet species									
	c) Specific name and generic name									
	d) Generic name and specific name									
	198. In Mangifera indica, the word Mangifera is a									
	a) Genus b) Species	c) Variety	d) Order							
	199. An example for the artificial system of classification		D =							
	a) Betham and Hooker b) Linnaeus system	c) Engler and Prantl	d) Bessey							
	200. Select the correct option from the following		(W) (242) 50 (0							
	a) Mule can reproduce	b) Worker bee undergoe new progeny	s reproduction to generate							

	c) Mule and worker bee	lo not reproduce	d) None of the above	
201	I. Which is not a category?			
	a) Asteraceae/Fabaceae		c) Phylum	d) Class
202	2. Viral genome when incor	5	1774	red as
	a) Prophages	b) DNA	c) RNA	d) Both (a) and (c)
203	3. In angiosperms floral feat	1.00	or identification, why?	
	a) Flower can be preserv	ed easily		
	b) Flower are attractive t	o work with		
	c) Flower have aroma an	d different colour		
	d) Reproductive parts are	e more conservative		
204	4. A place where dried, pres	ssed and preserved plant sp	oecimens are kept	
	a) Herbarium	b) Museum	c) Botanical garden	d) Both (a) and (c)
205	5. Which one is the importa	nt function of botanical ga	den?	
	a) Allow ex situ conserva	tion of germplasm		
	b) Are place for recreatio	n		
	c) Plant diversity can be	observed		
	d) Provide natural habita	t for wildlife		
200	5. Select true statement from	m the following and choose	the right answer from the	option given below
	I. Human's scientific nam	e is Homo sapiens		
	II. Genera Plantarum is	written by John Ray		
	III. Highest taxonomic cat	regories is division		
	IV. Taxonomic group of a	ny rank is taxon		
		ted species of organism rep	resent genus	
		was coined by de Candolle		
	a) II, III, IV and VI	aktivistinese dat de didenti et in delen perdicipat i di 🖚 i Stocke tan e — e i S i Habendere kichevall bi kici.	b) I, III, V and VI	
	c) I, IV and V		d) II, III and VI	
207	7. Who has proposed five ki	ngdom system of classifica	tion?	
	a) RH Whittaker	b) Simpson	c) Haldane	d) Bentham and Hooker
208	B. Which is the only kingdor	m occupied by BGA, nitroge	en fixing bacteria and meth	anogenic bacteria in five
	kingdom classification?	of 6 % 100	5778	
	a) Plantae	b) Protista	c) Monera	d) Fungi
209	9. Increase in body mass car		for growth	, ,
	a) In living being	b) Non-living being	c) Both (a) and (b)	d) None of these
210). Animal of the same phylu		55%, (176558) (3 350)	NT (1
	a) Shark, snake, whale, re		b) Insect, spider, shrimp	
	c) Snail, squid, slug		d) Earthworm, millipede,	leech
21	I. Among the following liste	ed features, which is not a u		
	a) Increase in size		b) Response to stimuli	
	c) Self organisation		d) Growth and reproduct	ion
212	2. The concept of genus was	s proposed by	,	
	a) John Ray	b) Tourne Fort	c) Hooker	d) Bessey
213	B. Which one is the correct l			a) bessey
21.	a) Genus <species<class<< td=""><td></td><td>b) Genus<class<order>f</class<order></td><td>family</td></species<class<<>		b) Genus <class<order>f</class<order>	family
	c) Species <order<class<< td=""><td></td><td>d) Genus < class < division</td><td></td></order<class<<>		d) Genus < class < division	
21/	4. What size of herbarium s	\$1 X\$X		Coruci
21.	a) 30×40 cm, 6×12 cm		idea generally:	
	b) 29 × 41 cm, 7 × 14 cm			
	c) 30×45 cm, 7×12 cm			
	d) 20×30 cm, 5×10 cm			
	u1 40 ^ 30 till, 3 ^ 10 till			

215. Which one of the following taxonomic categories can categorized rest all others

a) Family	b) Genus	c) Class	d) order					
216. The number of specie	es classified in "Species Plantar	um" is						
a) 5000	b) 6000	c) 4000 d) 3800						
	, TO C	e by fragmentation (asexual mode of reproduction)?						
a) <i>Amoeba</i> , fungi and			ae and protonema of mosses					
c) <i>Hydra</i> , fungi, <i>Amoe</i>		d) Earthworm, bacteria a						
	owing is the feature of phylum-	Chordata is also exhibited	by adult tunicate?					
 a) Possession of visce 								
b) Possession of a ver								
c) Possession of close								
	ral tubular nervous system							
an accompanies de l'Esta	ve kingdom system of classifica							
a) RH Whittaker	b) Simpson	c) Haldane	d) Bentham and Hooker					
- 1 - 1 m 1 - 1 m 1 m 1 m 1 m 1 m 1 m 1	c system of plant classification	180 S. M.	0.5 1 111 1					
a) Engler	b) Engler and Prantl	c) Eicher	d) Bentham and Hooker					
NO SE NO NO NE NET CHANGE NO CHENNES (COLOR DE NOVEMBRE) 1987	on level of living being can be re	사 중 에는 시간 시간 전 기계를 당하고 된 1시간에 기						
15	lular → Individual → Populatio		. 1 . 1					
	ar → Cellular → Tissue → Organ		idual					
9 T T	issue → Cellular → Molecular –							
	cular → Tissue → Organ system							
	owing taxonomic categories to b) Division	c) Class						
a) Order	egory contain the least similar of	The state of the s	d) Family					
a) Class	b) Order	c) Family	d) Division					
The state of the s	omenclature was given by	c) railing	d) Division					
a) Julian Huxley	b) Bentham and Hooker	c) Linnaeus	d) Casper Bauhin					
225. Which is first step in		c) Elimacus	a) casper baumin					
a) Description of the		b) Identification of the or	ganism					
c) Nomenclature of the		d) Classification of the or						
	listed features, which is not a u		<u>~</u>					
a) Increase in size								
b) Response to stimu	li							
c) Self organisation								
d) Growth and repro	duction							
227. Which one is species?	?							
a) Cannis	b) Pisum	c) Leo	d) Carnivora					
228. Biological organisation	on level of living being can be re	epresented as						
a) Sub-cellular → Cel	lular → Individual → Populatio	n b) $Atomic \rightarrow Molecular \rightarrow Organ systems \rightarrow In$	Cellular → Tissue → Organ dividual					
c) $\frac{\text{Organ system} \rightarrow \text{Tr}}{\text{Atomic}}$	issue → Cellular → Molecular –	d) Individual → Molecula → Population	r → Tissue → Organ system					
229. Nomenclature given	by Linnaeus is							
a) Binomial	b) Trinomial	c) Phylogenetic	d) Natural					
	are classified in the same taxo							
about their classificat								
a) The same class, bu	t different species							
b) A different class ar	1 To							
c) The same phylum,								
	m and different phylum							
	oguence in the hierarchy of tay	nomic categories in desce	nding order					

 a) Species-genus-family-order-class-division b) Division-order-class-family-genus-species c) Division-class-family-order-genus-species d) Division-class-order-family-genus-species 232. What name would be suggested for phylum in classification of plants? 	
	c)
a) Phylum b) Sub-division c) Division d) Both (b) and (c) 233. A species is a group of organisms which	-)
a) Can interbreed freely	
b) Do not interbreed	
c) Can live together	
d) Can interbreed occassionally	
234. Which one is the important function of botanical garden?	
a) Allow ex <i>situ</i> conservation of germplasm	
b) Are place for recreation	
c) Plant diversity can be observed	
d) Provide natural habitat for wildlife	
235. Which one is the first biosphere reserve?	
a) Norkrek Biosphere Reserve	
b) Simlipal Biosphere Reserve	
c) Pachmarhi Biosphere Reserve	
d) Nilgiri Biosphere Reserve	
236. Father of botany is	
a) Aristotle b) Robert Hooke c) Darwin d) Theophrastus	
237. Two plants can be conclusively said to belong to the same species if they	
a) Can reproduce freely with each other and form seeds	
b) Have more than 90 percent similar genes	
c) Look similar and possess identical secondary metabolites	
d) Have same number of chromosomes.	
238. Which one is the first biosphere reserve?	
a) Norkrek Biosphere Reserve b) Simlipal Biosphere Reserve	
c) Pachmarhi Biosphere Reserve d) Nilgiri Biosphere Reserve	
239. A place where dried, pressed and preserved plant specimens are kept	
a) Herbarium b) Museum c) Botanical garden d) Both (a) and (a)	:)
240. Which one of the following feature is shared by all living organism at all hierarchial level	
a) Mode of nutrition b) Cellular organization	
c) Nature of protoplasmic-composition d) Growth by cell division	
241. Select the wrong statements.	
(I) Lower the taxon, more are the characteristics that the member within the taxon share.(II) Order is the assemblage of genera which exhibit a few similar characters.	
(III) Cat and dog are included in the same family-Felidae.	
(IV) Binomial nomenclature was introduced by Carolus Linnaeus.	
a) I, II and III b) II, III and IV c) I and IV d) II and III	
242. ICBN stands for	
a) Indian Congress of Biological Name b) International Code for Botanical Nomence	lature
c) International Congress of Biological Name d) Indian Code of Botanical Nomenclature	acaro
243. The framework system of classification in which various taxonomic categories are arranged in order	der of
logical sequence is called	
a) Systematics b) Classification c) Hierarchy d) Taxon	
244. Which of the following is a merit in the Bentham and Hooker's system of classification?	
a) The position of gymnosperms in between dicots and monocots	
b) Closely related families are placed apart	
c) The placement of family-Asteraceae in the beginning of Gamopetalae	

d) The placement of or	der-Ranals in the beginning							
245. Huxley is father of	•							
a) Classical taxonomy		b) Artificial taxonomy						
c) Neo-taxonomy		d) Adansonian taxonomy	1					
246. Classification based or	n chromosome number is							
a) Cytotaxonomy	b) Numerical taxonomy	c) Karyotaxonomy	d) Biochemistry					
247. Which one of the follow	wing taxonomic categories ca	n categorized rest all other	'S					
a) Family	b) Genus	c) Class	d) order					
248. This of the following to	axonomist described classific	ation of plant in 'Families o	f flowering plants'?					
a) Cronquist	b) Thakhtajan	c) Benson d) Hutchinson						
249. National botanical res	earch Institute is situated at							
a) Lucknow	b) Kolkata	c) Mumbai	d) Chennai					
250. What is the prime sou								
	specimens of organisms spec							
	ual specimen of organism sp	ecies						
c) Both (a) and (b)								
d) None of the above								
- 11 - 스러리 나타보다 바랍니다. 기를 보고 되고 있었다는 그 얼마 하라고 되었다면 뭐 했다.	ements regarding universal i							
	piological name represents th							
	ting the genus starts with a c		20 2					
	biological name, when hand	그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	erlined					
	e generally in English and wi	ritten in italics						
252. The term 'species' was	7.		***					
a) Aristotle	b) Engler	c) John Ray	d) Linnaeus					
253. Which one is correctly								
a) Panther Tigris	b) Mangifera indica	c) Pucnthera Leo	d) Columnba LIVEA					
254. Metabolism can be bes								
	ch a chemical is formed inside	30 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -						
15V 5	ch a chemical is destroyed ins	52						
	chemical reactions only occu	rring in a body						
d) A complex construc	tion process only							
255. MABP stands for	Drogramma							
a) Man and Biosphereb) Man and Biosphere								
	Conservation and Protection							
d) All of the above	Conservation and Frotection	L						
	m, first and second word star	nd for respectively						
a) Genus, generic nam		ia ioi, respectively						
b) Specific epithet spe								
c) Specific name and g								
d) Generic name and s								
257. Solanum and Panther								
a) Genus and species	b) Genus and genus	c) Species and species	d) Only species					
258. By which chemical spe			(1.0€. 10.0000.1€) - 10.♣0.0.10.000000					
15 to 15	cimen for herbaria are treati	or to brother thinger detection						
a) 0.1% mercuric chlo		b) 0.1% mercurous chlor	ride					
a) 0.1% mercuric chloc) Carbon disulphide			ride					
이어를 하게보면 느낌을 가게 하면 하셨습니다 때문에 다시 다양 없었다.	ride	b) 0.1% mercurous chlor	ride					
c) Carbon disulphide	ride	b) 0.1% mercurous chlor	ride d) Both (a) and (b)					
c) Carbon disulphide 259. Which of the following a) Division	ride ; is a category?	b) 0.1% mercurous chlord) Acetic acidc) Viruses						

261. Read the following features and select the correct option from the options given below with respect to							
living beings							
I. They reproduce							
II. They metabolise							
III. They have cellular or							
IV. They have ability to) O-1-III :- t	J) All t					
a) I and III are true	b) I and II are true	c) Only III is true	d) All are true				
262. According to binomial n	omenciature, scientific nam	ie of an organism consists of					
a) Generic name							
b) Specific epithet							
c) Both (a) and (b)							
d) None of these							
263. Which one is species?	L) D/	a) I	d) C				
a) Cannis	b) Pisum	c) Leo	d) Carnivora				
264. New systematics introd			J. N				
a) Phonetics	b) Cladistics	c) Biosystematics	d) Numerical taxonomy				
265. Largest herbarium in th							
a) Conservatory and Bo							
b) New York Botanical (
c) Royal Botanical Gard	# 1986 APA APA APA BARAN MANAMATAN APA BARAN PANAMATAN APA APA APA APA APA APA APA APA APA A						
d) British, Museum of N	970						
266. Read the following featu	ires and select the correct o	puon irom the options give	n below with respect to				
living beings							
I. They reproduce							
II. They metabolise							
III. They have cellular or							
IV. They have ability to		a) Oula III ia taura	J) All t				
a) I and III are true	b) I and II are true	c) Only III is true	d) All are true				
267. Abbreviation for Interna	V-0-10-10-10-10-10-10-10-10-10-10-10-10-1		d) IC Dati N				
a) ICBN	b) IC Bact N	c) ICNB	d) IC Bati N				
268. Abbreviation for Interna	10.77		d) IC Dati N				
a) ICBN 269. ICVCN stands for	b) IC Bact N	C) ICNB	d) IC Bati N				
a) International Code of	Virus Namanalatura	h) International Code of I	Jaluation in Namonalatura				
c) International Code of		b) International Code of Valuation in Nomenclatured) International Code of Virulence Nomenclature					
Nomenclature	VII al Classification and	u) international code of v	in thence wonnenciature				
270. Select true and false state	tomont and choose correct	answer from the ention give	an holow				
I. Taxon is a group of rel		answer from the option give	in below				
II. Homo sapiens is the							
	len is located in Bristol (Eng	tland)					
	rk is located at Lakhimpur i						
	ildlife sanctuaries and 492						
		it is an example of tautonyr	n				
a) True-I, III, V, False-II,	and the first of the common and the common terms of the common ter	it is an example of tautony	11				
b) True-I, II, III, False-IV							
c) True-II, IV, VI, False-V							
d) True-VI, V, IV, False-I							
271. Which branch of taxono		nation of genetic relationshi	in?				
a) Experimental taxono		on or believe relationship	·r·				
b) Numerical taxonomy							

	c) Cytotaxonomy										
	d) Biochemical taxonomy										
272. One of the most important functions of botanical garden is											
	 a) One can observe tro 	opical plants there	b) They allow ex situ conservation of germplas.								
	c) They provide the na	atural habitat for wildlife	d) They provide a bea	utiful area for recreation							
	273. Reproduction is synor	ymous with growth in whic	h of the following set of o	rganisms?							
	a) Bacteria, unicellula	r algae and <i>Amoeba</i>									
	b) Bacteria, <i>Amoeba</i> a	nd fungi									
	c) Unicellular algae ar	nd fungi									
	d) Unicellular algae ar	id filamentous algae									
	274. Reproduction is synor	nymous with growth in whic	h of the following set of o	rganisms?							
	 a) Bacteria, unicellula 	r algae and <i>Amoeba</i>	b) Bacteria, <i>Amoeba</i> a	b) Bacteria, Amoeba and fungi							
	c) Unicellular algae ar	nd fungi	d) Unicellular algae and filamentous algae								
	275. Where is Biosphere Re	eserve Simlipal located?									
	a) Kerala	b) Odisha	c) Asom	d) Sikkim							
	276. Who had written Syst	ema Naturae?									
	a) Ernst Mayr	b) Carolus Linnaeus	c) RH Whittaker	d) WM Stanley							
	277. A genus with a single s	species is called									
	a) Typical	b) Polytype	c) Monotype	d) Syntype							
		ing arrangement of taxonom	iic categories is known as	. Philippin							
	a) Classification	b) Key	c) Taxonomy	d) Hierarchy							
279. Binomial system of classification was based on											
	a) Embryology		c) Cytology d) Anatomy								
	280. Which series ends wit	h the cohort umbellales in B	entham and Hooker's sys	tem of classification?							
	a) Thalamiflorae	b) Disciflorae	c) Heteromerae	d) Calyciflorae							



THE LIVING WORLD

: ANSWER KEY:															
1)	2	2)	2	3)	b	4)	d	145)	b	146)	d	147)	d	148)	d
5)	a b	6)	a d	3) 7)	d	8)	c	149)	c	150)	u b	151)	c	152)	c
9)	c	10)	b	11)	d	12)		153)	d	154)	c	155)	a	156)	c
13)	b	14)	c	15)	b	16)	c	157)	a	158)	b	159)	b	160)	a
17)	c	18)	a	19)	b	20)	a	161)	С	162)	b	163)	c	164)	c
21)	С	22)	c	23)	b	24)	a	165)	b	166)	a	167)	d	168)	c
25)	b	26)	a	27)	a	28)	С	169)	b	170)	b	171)	b	172)	d
29)	c	30)	b	31)	d	32)	a	173)	d	174)	a	175)	d	176)	a
33)	b	34)	b	35)	b	36)	a	177)	b	178)	a	179)	C	180)	b
37)	a	38)	С	39)	a	40)	a	181)	С	182)	c	183)	d	184)	d
41)	a	42)	c	43)	b	44)	a	185)	d	186)	a	187)	c	188)	a
45)	d	46)	a	47)	b	48)	c	189)	d	190)	a	191)	a	192)	d
49)	a	50)	c	51)	c	52)	c	193)	b	194)	a	195)	c	196)	С
53)	d	54)	c	55)	a	56)	a	197)	d	198)	a	199)	b	200)	c
57)	a	58)	a	59)	b	60)	b	201)	a	202)	a	203)	d	204)	a
61)	c	62)	b	63)	C	64)	b	205)	a	206)	C	207)	a	208)	C
65)	a	66)	c	67)	a	68)	b	209)	c	210)	d	211)	a	212)	c
69)	a	70)	a	71)	b	72)	c	213)	c	214)	c	215)	c	216)	b
73)	C	74)	a	75)	d	76)	b	217)	b	218)	a	219)	a	220)	C
77)	C	78)	d	79)	b	80)	b	221)	b	222)	b	223)	d	224)	C
81)	d	82)	c	83)	b	84)	a	225)	b	226)	a	227)	c	228)	b
85)	d	86)	b	87)	a	88)	b	229)	a	230)	a	231)	d	232)	c
89)	a	90)	a	91)	d	92)	d	233)	a	234)	a	235)	d	236)	d
93)	a	94)	b	95)	C	96)	a	237)	a	238)	d	239)	a	240)	C
97)	C	98)	a	99)	a	100)	a	241)	d	242)	b	243)	C	244)	d
101)	a	102)	c	103)	b	104)	d	245)	C	246)	a	247)	c	248)	d
105)	C	106)	C	107)	b	108)	C	249)	a	250)	C	251)	d	252)	C
109)	C	110)	d	111)	b	112)	a	253)	b	254)	C	255)	a	256)	d
113)	a	114)	c	115)	C	116)		257)	b	258)	a	259)	d	260)	С
117)	C	118)	a	119)	b	120)		261)	d	262)	C	263)	C	264)	b
121)	b	122)	d	123)	C	124)		265)	c	266)	d	267)	c	268)	C
125)	b	126)	a	127)	b	128)		269)	c	270)	C	271)	a	272)	b
129)	C	130)	d	131)	c	132)		273)	a	274)	a	275)	b	276)	b
133)	c	134)	b	135)	b	136)		277)	C	278)	d	279)	b	280)	d
137)	c	138)	b	139)	d	140)	b								
141)	С	142)	d	143)	C	144)	a								

: HINTS AND SOLUTIONS :

1 (a)

Biosystematics aims at morphological delimitation of taxa but incorporates evidences from Genetics, Cytology, Anatomy, Palynology, Chemistry, Physiology, etc.

2 (a)

Phenetics (Gr. *Phainein*= to appear; the term phenotypes is derived from this same root) dedicates taxonomic affinities entirely on the basis of measurable similarities and differences.

3 **(b)**

A herbarium (A) is a collection/place of pressed dried and preserved plants specimen mounted on a paper sheets (B) labelled and arranged systematically for further reference

4 (d)

Linnaeus classified all the living organisms into two large kingdoms, *i. e.*,Plantae and Animalia. The descending order of Linnaean hierarchy is Kingdom→Phylum→Class→Order→ Family → Genus → Species.

5 **(b**)

Luca Ghini a professor of Botany set-up the first herbarium at Pisa is Italy

6 **(d**)

Shark, snake, whale, reptile belong to phylum-Chordata.

Insect, spider and shrimp belong to phylum—Arthropoda. Fish, snail, squid and slug are molluscans, while earthworm is annelids, millipede is arthropods, *Hirudinaria* is common leech of phylum—Annelida

7 (d)

The term 'Systematic Botany' refers to the methodical study of plants, dealing with identification, naming and classification.

8 **(c**)

Hornbill (a bird) is the symbol of Bombay Natural History Society. It is privately owned wildlife conservation agency/organisation

9 (c)

Linnaeus produced sexual system of classification based upon the numerical relations of the floral parts. He grouped all the genera into 24 classes based on number and morphological arrangement of their stamens.

10 (b)

Species is the smallest rank of taxonomic classification modern concept of species is biological species concept (E Mayr; 1942). Mayr defined he species as the group of interbreeding natural populations that are reproductively isolated from other such groups.

11 (d

When synthetic process or constructive process called anabolism exceeds destructive process of the body *i.e.*, catabolism, growth will takes place, which in turn proceeds development and body will function well

12 **(d)**

According to Mayr, species are group of interbreeding natural populations that are reproductively isolated from other such groups. Species is the lowest taxonomic rank. It contains most similar organisms.

13 **(b)**

In taxonomy, nomenclature of organisms is possible only when the correct place and correct name is known. *i.e.*, organism must be described correctly. This is identification and is the first step in taxonomy

14 (c)

The prime source of taxonomic studies is collection and identification of actual specimen.

Nomenclature the present scientific method of naming the organism can be completed only when actual specimen is collected and identified

15 **(b)**

Flora is a book or taxonomic aid which have adequate information about habitat, distributions of climate and index of plants present in a particular region



16 **(c)**

Hierarchial classification is

Kingdom

1

Division/Phylum

1

Class

1

Order

1

Family

1

Genus

1

Species

Class occupy a position between division/phylum and order

17 (c)

Mule a result of outbreeding interspecific hybridization and worker bee lack primary sex organ. So, they are unable to do reproduction

18 (a)

Hierarchical system is used in classification by majority of the biologist because each higher taxonomic category contain its below group, *i.e.*, it reduce the volume of description in a catalogue of animal and plants and character at larger category need not to be repeated for smaller categories

19 **(b**

Organization or living being starts with atomic, *i.e.*, sub-microscopic level and reaches to cells (microscopic level), then become visible or microscopic with tissue and organs and then reaches to conceptual level

Atoms → Molecules → Biomolecules → Cells —— System organ ←— Organ ←— Tissues ←— Organism → Population (conceptual level)

20 (a)

The ascending hierarchy in similar characteristic is Class < Family < Genus < Species, *i.e.*, specificity is increasing

21 (c)

Growth self-replication and response to stimuli are the properties, which are exclusive among the living being as increase in mass can be observed in non-living thing, e.g., mountains, sand mounds also shows increase in size by accumulation of material on their surface

22 (c)

Nature of protoplasmic composition is shared by all living organism at all taxonomic categories. Mode of nutrition is peculiar feature of five kingdom classification

23 **(b)**

A herbarium (A) is a collection/place of pressed dried and preserved plants specimen mounted on a paper sheets (B) labelled and arranged systematically for further reference

24 (a)

0.1% mercuric chloride solution are used to prevent fungal attack on herbarium nepthalene and carbon disulphide are common pesticides

25 **(b**)

Binomial system of nomenclature was proposed by Carolus Linnaeus. The system of nomenclature was first issued in *Species Plantarum*. Binomial system approve two name for an organism, *i.e.*, generic and specific name

26 (a)

Term 'Taxonomy' is coined by AP de Candolle (1813) in his book *Theory Elementarie de La Botanique, i.e.*, Theory of Elementary Botany. While Carolus Linnaeus is regarded as Father of Taxonomy

27 (a)

A family is a group of related genera with less number of similarities as compared to genus and species

28 (c)

Regeneration is a process in which a lost part of the body is recreated by the organism to became a new organism. It can be best observed in flatworm *Planaria*

29 (c)

Genera Plantarum was written by Bentham and Hooker, highest taxonomic category is kingdom in hierarchy. Term 'Systematic' was first time used by Linnaeus

30 **(b)**

In trinomial nomenclature a third name is written or printed after two words name, which indicate sub-species or variety or race of the organism, *e.g.*, Indian babul (*Acacia nilotica indica*). Where *indica* means Indian species of babul

31 (d)

Dr. NW Pjrie and Dr. FC Bawden proved that virus are composition of nucleoprotein, *i.e.*, made up of nucleic acid and protein

32 (a)



The suffix phyta indicates division

33 **(b)**

The genus Felis is used to represent cats

34 **(b)**

Binomial system of nomenclature was proposed by Carolus Linnaeus. The system of nomenclature was first issued in *Species Plantarum*. Binomial system approve two name for an organism, *i.e.*, generic and specific name

35 **(b)**

Luca Ghini a professor of Botany set-up the first herbarium at Pisa is Italy

36 **(a**

Taxon can be defined as a group of organisms with similar trait of any taxonomic rank like roses (genus), legumes (family), gymnosperm (class). According to Simpson, it is a group of real organisms recognized at a formal unit at any level in hierarchy

37 (a)

The term new systematic was given by Julian Huxley (1940). New systematic or Biosystematics is the concept of systematic which bring out taxonomic affinity on the basis of evolutionary, genetic and morphological traits. The term systematic was given by Linnaeus (Father of Taxonomy), who also gave binomial nomenclature concept.

Darwin has given theory of natural selection and theory of pangenesis.

38 (c)

A natural taxon means a group of similar, genetically, related organisms having certain distinct characters from other groups. A genus with single species is called monotypic genus

39 **(a**

MABP stands for Man and Biosphere Programme

40 (a

The system by which various taxonomic categories are arranged in a proper descending order is called taxonomic or systematic hierarchy. The correct sequence of categories in systematic hierarchy is-

Kingdom, sub-kingdom, division or phylum, class, sub-class, series, order, family, genus, species.

41 (a)

Germplasm is a collection seeds/plants which consists diverse alleles of all gene in a crop

42 (c)

Species is basic/lowest/smallest unit of taxonomy. According to Earnst Mayr species are group of interbreeding natural populations. Which are reproductively isolated from other such groups. It contains most similar organisms

43 **(b)**

Allotropic species are those group of individuals, which occupy the same or overlapping area in the different habitat and involve geographical isolation. While sympatric species occur without geographic isolation. Sibling have same ancestors and when species have subgroup, it is called subspecies or variety

44 (a)

Term phylum was coined by Cuvier. Aristole is regarded as Father of Zoology as well as Biology. Earnst Haeckel proposed Biogenetic Law. Benthon and Hooker are pioneer workers in classification of organisms

45 (d)

There are certain rules

- (i) The names are in Latin language, sometimes in Greek.
- (ii) Generic name begins with the capital letter and is placed before specific name.

The specific name begins with a small letter.

- (iii) The scientific name should either be underlined or italicized.
- (iv) Name of the authority should be written after specific epithet in an abbreviated from.
- 46 (a)

Linnaeus introduced five categories in the taxonomic hierarchy, i.e., class, order, species and variety. Later on, three more categories, i.e., kingdom, division or phylum and family were added and variety was discarded to make a hierarchy of seven obligate categories.

47 **(b)**

"SystemaNaturae" was written by Carolus Linnaeus.







Hornbill (a bird) is the symbol of Bombay Natural History Society. It is privately owned wildlife conservation agency/organisation

49 (a)

In taxonomic categories family occupy the position between class and species (lowest) family can accomodate different genera but species are different like dog, jackal, wolf belong to same genera *Cannis* but species are different. But they belong to same class. More similar characteristic of order are grouped in same class

50 (c)

Metabolism is the sum of all the metabolic activities in body, i.e., anabolism and catabolism. Anabolism is constructive process, while catabolism is a destructive process

51 (c)

Growth self-replication and response to stimuli are the properties, which are exclusive among the living being as increase in mass can be observed in non-living thing, e.g., mountains, sand mounds also shows increase in size by accumulation of material on their surface

52 (c

Hierarchial classification is

Kingdom

1

Division/Phylum

1

Class

 \downarrow

Order

1

Family

↓ Genus

↓ Species

Class occupy a position between division/phylum and order

53 (d)

Biological or scientific name are generally written in italics at these are Greek or Latin words. The first word denotes genus and begin with capital letter, while second words denote species and starts with small letters

54 (c)

World first herbarium was set-up Pisa in Italy by professor of Botany Luca Ghine

55 **(a)**

Aristotle (384-322 BC) described structure, habit, reproduction and classification of animals in his book *Historia Animalium*. He is regarded as father of zoology and biology

56 (a)

Increase in the body mass is a common feature of non-living and living objects to represent growth as non-living objects also grows if we take increase, in body mass as criterian for growth, e.g., mountains and boulder also grows by accumulation of material on surface

57 (a)

A family is a group of related genera with less number of similarities as compared to genus and species

58 (a)

The ascending hierarchy in similar characteristic is Class < Family < Genus < Species, *i.e.*, specificity is increasing

59 **(b)**

Unicellular organisms are classified in kingdom-Monera, *i.e.*, 'kingdom of prokaryotes' of five kingdom classification, rest four kingdom are assigned to eukaryotes

60 **(b)**

Largest herbarium in India is Central National Herbarium (Indian Botanical Garden) at Sibpur, Kolkata (WB)

61 (c)

Polypetalae, Gamopetalae and Monochlamydeae are division of group dicotyledons.

62 **(b)**

Binomial system of nomenclature was proposed by Carolus Linnaeus. The system of nomenclature was firsts issued in Species Plantarum. Binomial system approve two name for an organism, i.e., generic and specific name

63 (c)

The basic unit of classification is species. It is the lowest taxonomic category ad consists one or more natural populations closely related that individual of other population

64 **(b)**

Solanum and Panthera are genera of family—Solanaceae and Felidae, respectively

65 (a)

The biological concept of species was formulated by **Ernst Mayr.**





Central Indian Government inacted wildlife protection act in 1972. Some wildlife project in India are the project Hangul-operated in J & K Government, IUCN and WWF.

Crocodile Breeding Project operated by UNDP and Central Government

67 (a)

Number and type of organisms it includes

68 **(b**)

Systema Naturae was a work of Carolus Linnaeus. He describe about 4330 species of animal in this, while around 6000 species of plant had been described in Species Plantarum

69 (a)

Increase in the body mass is a common feature of non-living and living objects to represent growth as non-living objects also grows if we take increase, in body mass as criterian for growth, e.g., mountains and boulder also grows by accumulation of material on surface

70 **(a**)

John Ray introduced the term 'Species' in its presence sense for the first time. He also published a book *Historia Generalis Plantarum*

71 **(b)**

Bauhin (1623) proposed a binary system of naming plants. This concept was properly enlarged by Lannaeus (1753), while publishing 'Species Plantarum'. According to this, plant name consists of two parts-the generic and specific epithet.

72 **(c)**

The accurate arrangement of species in order to descending specificity is $Species \rightarrow Genus \rightarrow Family \rightarrow Order \rightarrow Class$ As in the taxonomical hierarchy similarity increases from highest category to lowest category

73 (c)

Reproduction is not essential for the survival of individual. However, it is essential and required for the survival of population because the through this loss of life is compensated

74 (a)

Regeneration was first observed in *Hydra*.

Planaria exhibits true regeneration. All these organisms show regeneration as a key feature

75 **(d)**

Increase in mass and increase in number of individuals are considered twin characteristics of growth, metabolic reaction can also be demonstrated *in vitro* and consciousness is considered as a determining property of livings

76 **(b)**

Species is group of interbreeding populations according to biological concept of species (proposed by Mayr) and new species is formed from existing species

77 (c

In plant growth occurs by cell division or multiplication continuously in all parts throughout their life span

78 (d)

Metabolic reactions can also be performed outside the body in a cell free system, *i.e.*, an isolated metabolic reaction *in vitro*

79 (b)

Allotropic species are those group of individuals, which occupy the same or overlapping area in the different habitat and involve geographical isolation. While sympatric species occur without geographic isolation. Sibling have same ancestors and when species have subgroup, it is called subspecies or variety

80 **(b)**

In trinomial nomenclature a third name is written or printed after two words name, which indicate sub-species or variety or race of the organism, *e.g.*, Indian babul (*Acacia nilotica indica*). Where *indica* means Indian species of babul

81 (d)

The categories in taxonomic hierarchy are Kingdom \rightarrow Division/Phylum \rightarrow Class \rightarrow Order \rightarrow Family \rightarrow Genus \rightarrow Species.

Hierarchy of categories is also called as Linnaean hierarchy.

82 (c)

All living organism from prokaryotes to the most complex eukaryotes can respond external stimuli. The non-living things do not have this property at all

83 (b)

Flora is a book or taxonomic aid which have adequate information about habitat, distributions of climate and index of plants present in a particular region

84 (a)



In the natural system, all the important characters of plants are being considered and the plants are classified according to their related affinities. This system reflects the situation as it is thought to exist under natural conditions, i.e., Bentham and Hooker's system.

85 (d)

R H Whittaker divided living organisms into five kingdoms based in cell, body structure, nutrition and life style. The five kingdoms as given by Whittaker are: Monera, Protista, Fungi, Plantae and Animalia.

86 **(b)**

In majority of the higher organisms (plant and animals) reproduction and growth characteristic are mutually exclusive events as increase in the body size of living being do not alters the rate of reproduction or *vice-versa*

87 (a)

In **artificial system** of classification, only a few characters of the plants are being considered, for example, the grouping of plants into herbs, shrubs and trees or the sexual system of Linnaeus was based on number od stamens. The best known artificial system is of **Linnaeus** published in 1735.

88 **(b)**

New systematics or **biosystematics** is the concept of systematic, which brings out taxonomic affinity on the basis of evolutionary, genetic and morphological traits. New systematic brings out phylogenetic classification or **caldistics**.

89 (a)

Term phylum was coined by Cuvier. Aristole is regarded as Father of Zoology as well as Biology. Earnst Haeckel proposed Biogenetic Law. Benthon and Hooker are pioneer workers in classification of organisms

90 (a)

Phylogeny (Gr. Phylon=tribe or race; geneia=origin) is the origin and diversification of any taxon or the evolutionary history of its origin and diversification. It is usually represented as a diagrammatic phylogenetic tree (that traces putative evolutionary relationships) i.e., dendrogram.

91 (d)

Prokaryote can be distinguished from eukaryotes on basis of the absence of cell organelles like chloroplast mitochondria, chromosome, nucleus and nuclear membrane

92 (d)

The phylogenetic system classifies the plants according to their evolutionary and genetic relationships, e.g., classification system proposed by Eicher, Engler and Prantl John Hutchinson etc.

93 (a)

Term 'Taxonomy' is coined by AP de Candolle (1813) in his book *Theory Elementarie de La Botanique, i.e.*, Theory of Elementary Botany. While Carolus Linnaeus is regarded as Father of Taxonomy

94 **(b)**

Largest herbarium in India is Central National Herbarium (Indian Botanical Garden) at Sibpur, Kolkata (WB)

95 (c)

World first herbarium was set-up Pisa in Italy by professor of Botany Luca Ghine

96 (a

Phylogenetic system classifies the plants according to their evolutionary and genetic relationship, *e. g.*, Eichler and Engler and Prantl's system of classifications.

97 (c)

Reproduction.

Regeneration was first observed in *Hydra*. *Planaria* exhibits true regeneration. All these organisms show regeneration as a key feature

98 (a)

The term 'taxonomy' was introduced by A P de Candolle (1813)in his book, 'TheorieElementarie de la Botanique' (Theory of Elementary Botany). Father of taxonomy is regarded to Carolus Linnaeus.

99 (a)

Species is a group of actually or potentially inbreeding population that are reproductively isolated from other such groups

100 (a)

CLICK HERE

Experimental taxonomy is based on determination of genetic relationship, while cytotaxonomy is based on cytological study of chromosomes, *i.e.*, behavior, number and morphology of chromosomes





101 (a)

John Ray introduced the term 'Species' in its presence sense for the first time. He also published a book Historia Generalis Plantarum

102 (c)

Taxonomy is applicable for both plants and animals.

103 (b)

Reproduction by fragmentation can be best observed in protonema of mosses, filamentous algae and in the fungi

104 (d)

In biological taxonomy, a monograph is a comprehensive, treatment of a taxon which revises all known species within a group, add any newly discovered species and collects and synthesis available information on various aspects, eg, ecological association, geographic distributions and morphological variations within 115 (c) the group.

105 (c)

Taxa is plural of taxon. A taxon represents a grouping in a systematic classification of organism (whatever its rank)

106 (c)

In hierarchical system of classification phylum and division occupy the same position which are used in classification of animal and plant, respectively

107 (b)

Taxon is used to represent any rank in taxonomic hierarchy.

108 (c)

Phylogenetic system involves the classification of plants, according to the envolutionary and genetic affinities. This system of classification was proposed by Engler in 1886, by Hutchinson in 1926 and by **Tippo** in 1942.

109 (c)

John Ray (1627-1705) an english biologist described about 18,500 plants is three volumes of his book of Historia Generalis Plantarum

110 (d)

Taxon is used to represent any rank in taxonomic hierarchy, i.e., any level of grouping of organism based on observable feature like dog (species), monocot (class). According to Simpson, taxon is a group of real organisms recognized at a formal unit at any level in hierarchy

111 (b)

The genus Felis is used to represent cats

112 (a)

Aristotle (384-322 BC) described structure, habit, reproduction and classification of animals in his book Historia Animalium. He is regarded as father of zoology and biology

113 (a)

The correct labelling place on a herbarium sheet is lower corner of page of RHS and generally its size is 7×12 cm

114 (c)

The sum total of all the genes present in a crop and its related species constitutes its germplasm. It is ordinarily represented by a collection of various strains and species.

Bentham and Hooker did not know the affinities of the families placed under Ordines Anomali and these families were tentatively grouped together.

116 (d)

Growth also occur in unicellular organisms by cell division. It can be observed in vitro culture by counting the number of cell under microscope

117 (c)

Increase in mass and increase in number of individuals are considered the twin characteristic of growth in living organisms

118 (a)

Number and type of organisms it includes

119 (b)

Binomial system of nomenclature was proposed by Carolus Linnaeus. The system of nomenclature was firsts issued in Species Plantarum. Binomial system approve two name for an organism, i.e., generic and specific name

120 (c)

Reproduction.

Regeneration was first observed in Hydra. Planaria exhibits true regeneration. All these organisms show regeneration as a key feature

121 (b)

Unicellular organisms are classified in kingdom-Monera, i.e., 'kingdom of prokaryotes' of five kingdom classification, rest four kingdom are assigned to eukaryotes

122 (d)





Flower is a specialized, modified shoot. Which has evolved due to progressive specialization of sporophyll. Sexual reproduction in angiosperm is performed by these conservative part of flowers. Hence, flower feature are commonly used for identification

123 (c)

Regeneration is a process in which a lost part of the body is recreated by the organism to became a new organism. It can be best observed in flatworm *Planaria*

124 (a)

The basic unit of classification is species. It is the lowest category of classification. It is a group of closely related individuals with similar morphological, anatomical, biochemical and cytological characters. It is a group of naturally interbreeding populations with ability to produce fertile off springs. Individuals of a species share a common gene pool. Species is reproductively isolated, thus genetically closed system. Species has the real existence in nature. The term 'species' was given by John Ray, an English naturalist.

125 (b)

There are 14 reserve biosphere in India. Simlipal Biosphere reserve is located in Odisha

126 (a)

The correct labelling place on a herbarium sheet is lower corner of page of RHS and generally its size is 7×12 cm

127 (b)

Carolus Linnaeus is a Swedish botanist is regarded as Father of Taxonomy. Binomial nomenclature was published by him in *Species Plantarum*

128 (d)

Binomial nomenclature was given by **Carlous Linnaeus**. It was first issued in Species Plantarum.

129 (c)

Central Indian Government inacted wildlife protection act in 1972. Some wildlife project in India are the project Hangul-operated in J & K Government, IUCN and WWF.

Crocodile Breeding Project operated by UNDP and Central Government

130 (d)

Taxon is used to represent any rank in taxonomic hierarchy, *i.e.*, any level of grouping of organism based on observable feature like dog (species),

monocot (class). According to Simpson, taxon is a group of real organisms recognized at a formal unit at any level in hierarchy

131 (c)

Taxa is plural of taxon. A taxon represents a grouping in a systematic classification of organism (whatever its rank)

132 (a)

As per binomial system of nomenclature, botanical name consists of generic epithet. The names are written in italic, generic name begins with capital letter and specific name begins with small letter, e.g., *Brassica indica*.

133 (c)

Growth is exhibited by living as well as non-living organism. When increase is body mass is considered as a criterian for growth this may be as the result of accumulation of material on non-living surface or weight increase in livings, e.g., mountains and sand dunes increase due to accumulation of material on their surface

134 **(b)**

Carolus Linnaeus is a Swedish botanist is regarded as Father of Taxonomy. Binomial nomenclature was published by him in *Species Plantarum*

135 (b)

Out of four options, division occupy the largest or top position in taxonomic hierarchy Kingdom-Division-Class-Order-Family-Genus-Species

136 (a)

Eukaryotes are assigned the kingdom-Protista, Fungi, Plantae and Animalia, while prokaryotes occupy space only in kingdom-Monera

137 (c)

Taxonomic aid monograph is treatise having complete information about a particular rank level of a taxonomic category. Key or taxonomic key contain list of traits or characters and their alternate which are helpful in taxonomic studies. Catalogue registers the species present in a particular place with brief description

138 (b)

Carolus Linnaeus (1707-1778) employed binomial system of nomenclature in the first edition of his book 'Species Plantarum' in 1753. According to which, the plant name is consisted of two Latin words. The first of which is generic name and the second is specific name.





139 (d)

Metabolic reactions can also be performed outside the body in a cell free system, *i.e.*, an isolated metabolic reaction *in vitro*

140 (b)

Present Indian Board of Wildlife is former Central Board of Wildlife is former Central Board of Wildlife. IBWL concerned with conservation of wildlife and run project to save wildlife and public awareness

141 (c)

Binomial nomenclature provide a distinct and proper scientific name to organism, each consisting of two words, first generic name and second specific name, which are derived from Latin language.

Scientific names are printed in italics and hand written name is underlined (zig zag)

142 (d)

 \rightarrow A taxon is the taxonomic group of any rank in the system of classification

143 (c)

Species is basic/lowest/smallest unit of taxonomy. According to Earnst Mayr species are group of interbreeding natural populations. Which are reproductively isolated from other such groups. It contains most similar organisms

144 (a)

Presence of visceral slits is exhibited by both Chordata and adult Tunicata members

145 (b)

The given figure shows flowering plant so, plant belongs to angiosperm. And the leaf venation is reticulate so plant is dicot

146 (d)

The discipline of biology which deals with the kind and diversity of all organisms and the existing relationship amongest them is called systematics. The word 'systematics' is derived from Latin word systema which means systematic arrangement of organisms. It was first used by Carolus Linnaeus. He used SystemaNaturae as the title of his publication. The scope of systematics was later enlarged to include identification, nomenclature and classification. Systematic takes into account evolutionary relationships between organisms.

147 (d)

 \rightarrow A taxon is the taxonomic group of any rank in the system of classification

148 (d)

The concept that monocots are more primitive than dicots was proposed by **Engler** and **Prantl**.

149 (c)

All living organism from prokaryotes to the most complex eukaryotes can respond external stimuli. The non-living things do not have this property at all

150 (b)

Present Indian Board of Wildlife is former Central Board of Wildlife is former Central Board of Wildlife. IBWL concerned with conservation of wildlife and run project to save wildlife and public awareness

151 (c)

A species is a group of organisms that interbreed freely in their natural setting and do not interbreed with other population. In simple words, members of one species are reproductively isolated from members of other species. Species is the real basic unit for understanding taxonomy as well as evolution.

152 (c)

In plant growth occurs by cell division or multiplication continuously in all parts throughout their life span

153 (d)

Growth also occur in unicellular organisms by cell division. It can be observed in *vitro* culture by counting the number of cell under microscope

154 (c)

Largest herbarium in the world is herbarium of Royal Botanical Garden, Kew (London) which contains more than 6,00,000 specimens

155 (a)

Taxonomic hierarchy refers to stepwise arrangement of all categories for classification of plants and animals. The categories in taxonomic hierarchy are: Kingdom → Division (Phylum) → Class → Order → Family → Genus → Species

156 (c)

According to phylogenetic system of classification, primitive charecters are perenniall and shrubby nature, solitary flower, numerous stamens multiple or aggregate fruit, while advanced characters are compound leaves, zygomorphic



flowers, epigynous flowers, fused stamens (dichlamydeous condition) and albuminous seeds.

Thus, the ratio of advanced and primitive characters according to question is 1:1.

157 (a)

Germplasm is a collection seeds/plants which consists diverse alleles of all gene in a crop

158 (b)

Species is group of interbreeding populations according to biological concept of species (proposed by Mayr) and new species is formed from existing species

159 (b)

Binomial system of classification was based on morphological characteristic of an organism

160 (a)

Species, phylum and class are all taxonomic categories, while Asteraceae/Fabaceae are families

161 (c)

Taxon is used represent any rank in taxonomic hierarchy.

Royal Botanical Garden is located at (Kew) London in England.

There are about 492 (approximately 504) wildlife sanctuaries and 89 national park in India. Rest three statement are true

162 (b)

Organization or living being starts with atomic, i.e., sub-microscopic level and reaches to cells (microscopic level), then become visible or microscopic with tissue and organs and then reaches to conceptual level

Atoms → Molecules → Biomolecules → Cells -- System organ ← Organ ← Tissues → Organism → Population (conceptual level)

163 (c)

Increase in mass and increase in number of individuals are considered the twin characteristic of growth in living organisms

164 (c)

The system of classification proposed by Linnaeus 174 (a) was artificial. It was mainly based on floral characters.

165 (b)

According to Earnt Mayr species are group of interbreeding natural populations that are

reproductively isolated from other such groups. It contains most similar organisms

166 (a)

Binomial system of nomenclature was proposed by Linnaeus. According to the system an organism is provided a distinct and proper name consisting of two words first generic name and second specific name which present genus and species, respectively

167 (d)

When the specific name repeats the unaltered generic name this is called tautonym, e.g., Malus malus.

168 (c)

Generally size of a herbarium sheet is 30×45 cm. Which is slightly small than the size of American herbarium (29 \times 41 cm) and label size is 7 \times 12

169 (b)

The given figure shows flowering plant so, plant belongs to angiosperm. And the leaf venation is reticulate so plant is dicot

170 (b)

Mangifera indica, scientific name consists of two words a generic and another specific name. It is binomial system of nomenclature.

The first word denoting the genus start with capital letter, while specific epithets start with small letter

171 (b)

New systematics or biosystematics is concept of systematics which brings out taxonomic affinities on the basis of evolutionary, genetic and morphological traits. New systematics brings out cladistics or phylogenetic classification

172 (d)

In taxonomical hierarchy similarity increases from highest/largest category to lowest categories. Therefore, division has least similar feature as compared to lower categories (species)

173 (d)

Dr. NW Pjrie and Dr. FC Bawden proved that virus are composition of nucleoprotein, i.e., made up of nucleic acid and protein

Eukaryotes are assigned the kingdom-Protista, Fungi, Plantae and Animalia, while prokaryotes occupy space only in kingdom-Monera

175 (d)







Increase in mass and increase in number of individuals are considered twin characteristics of growth, metabolic reaction can also be demonstrated *in vitro* and consciousness is considered as a determining property of livings

176 (a)

Mangifera is the generic name of mango

177 (b)

In majority of the higher organisms (plant and animals) reproduction and growth characteristic are mutually exclusive events as increase in the body size of living being do not alters the rate of reproduction or *vice-versa*

178 (a)

Binomial system of nomenclature was proposed by Linnaeus. According to the system an organism is provided a distinct and proper name consisting of two words first generic name and second specific name which present genus and species, respectively

179 (c)

Taxonomic aid monograph is treatise having complete information about a particular rank level of a taxonomic category. Key or taxonomic key contain list of traits or characters and their alternate which are helpful in taxonomic studies. Catalogue registers the species present in a particular place with brief description

180 **(b)**

Mayr (1942) defined species as an array of actually or potentially interbreeding natural populations that are reproductively isolated from other such groups under natural conditions.

181 (c)

Kingdom-Monera of five kingdom classification consists of blue-green algae, nitrogen fixing bacteria and methanogens

182 (c)

The basic unit of classification is species. It is the lowest taxonomic category ad consists one or more natural populations closely related that individual of other population

183 (d)

Taxonomic categories are the various grouping levels or rank in classification like kingdom (largest) and species (lowest category). So, here division and phylum are categories

184 (d)

Prokaryote can be distinguished from eukaryotes on basis of the absence of cell organelles like chloroplast mitochondria, chromosome, nucleus and nuclear membrane

185 (d)

Phylogeny is the evolutionary history of a species or individual. It plays a great role in classification. It is the appropriate theoretical background for taxonomy and is quite essential in explaining all the associations involved in classification. Cladistics is exclusively based on phylogenetic characters.

186 (a)

Hierarchical system is used in classification by majority of the biologist because each higher taxonomic category contain its below group, *i.e.*, it reduce the volume of description in a catalogue of animal and plants and character at larger category need not to be repeated for smaller categories

187 (c)

The accurate arrangement of species in order to descending specificity is

Species → Genus → Family → Order → Class

As in the taxonomical hierarchy similarity increases from highest category to lowest category

188 (a)

Prophage is the phage (viral genome) inserted into the circular bacterial genome or existing as extra chromosomal plasmid

189 (d)

When synthetic process or constructive process called anabolism exceeds destructive process of the body *i.e.*, catabolism, growth will takes place, which in turn proceeds development and body will function well

190 (a)

The suffix phyta indicates division

191 (a)

Taxon can be defined as a group of organisms with similar trait of any taxonomic rank like roses (genus), legumes (family), gymnosperm (class). According to Simpson, it is a group of real organisms recognized at a formal unit at any level in hierarchy

192 (d)

The arrangement of taxonomic categories is known as taxonomical hierarchy order either it is descending or ascending





193 (b)

According to Earnt Mayr species are group of interbreeding natural populations that are reproductively isolated from other such groups. It contains most similar organisms

194 (a)

Regeneration was first observed in Hydra. Planaria exhibits true regeneration. All these organisms show regeneration as a key feature

195 (c)

Reproduction is not essential for the survival of individual. However, it is essential and required for the survival of population because the through | 206 (c) this loss of life is compensated

196 (c)

ICVCN is the abbreviation of international Code of Viral Classification and Nomenclature, ICNCP stands for International Code of Nomenclature for 207 (a) **Cultivated Plants**

197 (d)

In a scientific name, the first name denote/indicates the generic name of the organism, while second name indicates or stands for specific epithet or specific names

198 (a)

Mangifera is the generic name of mango

Linnaeus system is an example for the artificial system of classification. Linnaeus also gave binomial nomenclature. In this, first part is generic name and second one is the specific name.

200 (c)

Mule a result of outbreeding interspecific hybridization and worker bee lack primary sex organ. So, they are unable to do reproduction

201 (a)

Species, phylum and class are all taxonomic categories, while Asteraceae/Fabaceae are families

202 (a)

Prophage is the phage (viral genome) inserted into the circular bacterial genome or existing as extra chromosomal plasmid

203 (d)

Flower is a specialized, modified shoot. Which has evolved due to progressive specialization of sporophyll. Sexual reproduction in angiosperm is performed by these conservative part of flowers.

Hence, flower feature are commonly used for identification

204 (a)

Herbarium/Herbaria (Plu) are place/collection of dried pressed and preserved (FAA solution) specimen of plants

205 (a)

The most important function of botanical garden and its importance is that ex situ conservation of plant is allowed there. These garden serve site of recreation among nature conscious person especially during flowering

Genera Plantarum was written by Bentham and Hooker, highest taxonomic category is kingdom in hierarchy. Term 'Systematic' was first time used by Linnaeus

RH Whittaker, an American taxonomist proposed live kingdom classification. His five kingdom are Monera, Protista, Fungi, Plantae and Animalia

208 (c)

Kingdom-Monera of five kingdom classification consists of blue-green algae, nitrogen fixing bacteria and methanogens

209 (c)

Growth is exhibited by living as well as non-living organism. When increase is body mass is considered as a criterian for growth this may be as the result of accumulation of material on nonliving surface or weight increase in livings, e.g., mountains and sand dunes increase due to accumulation of material on their surface

210 (d)

Shark, snake, whale, reptile belong to phylum-Chordata.

Insect, spider and shrimp belong to phylum-Arthropoda. Fish, snail, squid and slug are molluscans, while earthworm is annelids, millipede is arthropods, Hirudinaria is common leech of phylum-Annelida

211 (a)

Increase in size with rest 3, the living organisms undergo self-replication, also and this feature makes them unique among all other forms

212 (c)

Hooker proposed the concept of genus.



Taxonic or systematic hierarchy may be defined as a series of different ranks placed descending order. In other words, it is a system by which various taxonomic categories are arranged in a proper descending order. Kingdom is the highest rank and species is the lowest or basic rank, i.e., Kingdom>phylum/division>class>order>family>genus>species.

214 (c)

Generally size of a herbarium sheet is 30×45 cm. Which is slightly small than the size of American herbarium (29×41 cm) and label size is 7×12

215 (c)

Out of four given categories, class is the largest category. Therefore, can categorises rest three categories; order, family and genus
Kingdom → Division/Phylum → Class → Order →
Family → Genus → Species

216 (b)

'Species Plantarum' includes names and description of 6000 species of 1000 genera of plants. The binomial nomenclature given by Linnaeus was first used in **Species Plantarum**.

217 (b)

Reproduction by fragmentation can be best observed in protonema of mosses, filamentous algae and in the fungi

218 (a)

Presence of visceral slits is exhibited by both Chordata and adult Tunicata members

219 (a)

RH Whittaker, an American taxonomist proposed live kingdom classification. His five kingdom are Monera, Protista, Fungi, Plantae and Animalia

220 (c)

The first phylogenetic system was proposed by **Eichler**, who is famous for his work entitled 'Bluthen Diagramme' published in two volumes.

221 (b)

Organization level starts at sub-microscopic level and leads to population levels. Organization or living being starts with atomic, i.e., sub-microscopic level and reaches to cells (microscopic level), then become visible or microscopic with tissue and organs and then reaches to conceptual level

$Atoms \longrightarrow Molecules \longrightarrow Biomolecules \longrightarrow Cells$	-
System organ ← Organ ← Tissues	—
Organism → Population (conceptual level)

222 **(b)**

Out of four options, division occupy the largest or top position in taxonomic hierarchy Kingdom-Division-Class-Order-Family-Genus-Species

223 (d)

In taxonomical hierarchy similarity increases from highest/largest category to lowest categories. Therefore, division has least similar feature as compared to lower categories (species)

224 (c)

Linnaeus not only laid of taxonomy but also introduced binomial nomenclature. According to this scientific name consists of two parts, the first is the name of the 'genus' and the second is called the 'specific epithet' that identifies the particular species within the genus.

225 (b)

In taxonomy, nomenclature of organisms is possible only when the correct place and correct name is known. *i.e.*, organism must be described correctly. This is identification and is the first step in taxonomy

226 (a)

Increase in size with rest 3, the living organisms undergo self-replication, also and this feature makes them unique among all other forms

227 (c)

Panthera leo is scientific name of lion. Cannis is genus (cat), Pisum is also generic name of sweet pea, Carnivora is order

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Organization level starts at sub-microscopic level and leads to population levels. Organization or living being starts with atomic, i.e., sub-microscopic level and reaches to cells (microscopic level), then become visible or microscopic with tissue and organs and then reaches to conceptual level

Atoms → Molecules → Biomolecules → Cells —

System organ — Organ — Tissues —
Organism — Population (conceptual level)

229 (a)

Linnaeus proposed binomial nomenclature. According to this scientific name of organism



consists of generic epithet and specific epithet, e.g., *Labeo rohita*.

230 (a)

In taxonomic categories family occupy the position between class and species (lowest) family can accomodate different genera but species are different like dog, jackal, wolf belong to same genera *Cannis* but species are different. But they belong to same class. More similar characteristic of order are grouped in same class

231 (d)

The correct sequence in the hierarchy of taxonomic categories in descending order is as follows:

Division \rightarrow class \rightarrow order \rightarrow family \rightarrow genus \rightarrow species.

232 (c)

In hierarchical system of classification phylum and division occupy the same position which are used in classification of animal and plant, respectively

233 (a)

Species is a group of actually or potentially inbreeding population that are reproductively isolated from other such groups

234 (a)

The most important function of botanical garden and its importance is that *ex situ* conservation of plant is allowed there. These garden serve site of recreation among nature conscious person especially during flowering

235 (d)

Nilgiri (TN) Biosphere reserve is the first biosphere reserve of India. Nilgiri was declared biosphere reserve in 1986

236 (d)

Father of Botany - Theophrastus

Father of Zoology/Biology - Aristotle

Father of Cytology - Robert Hooke.

237 (a)

Group of organisms capable of interbreeding and producing fertile offsprings but reproductively isolated from other such group is called **species**.

238 (d)

Nilgiri (TN) Biosphere reserve is the first biosphere reserve of India. Nilgiri was declared biosphere reserve in 1986

239 (a)

Herbarium/Herbaria (Plu) are place/collection of dried pressed and preserved (FAA solution) specimen of plants

240 (c)

Nature of protoplasmic composition is shared by all living organism at all taxonomic categories.

Mode of nutrition is peculiar feature of five kingdom classification

241 (d)

Order is the assemblage of families which exhibit a few similar characters. The similar characters are less in number as compared to different genera included in a family. For example, plant families like Convolvulaceae, Solanaceae, etc. are included in order-Polimoniales mainly based on floral character. In animals, order-Carnivora includes families like Felidae and Canidae

Family has a group of related genera with less number of similarities as compared to genus and species. Cat and dog showing some similarities and some differences are placed into two different families-Felidae and Canidae, respectively.

242 (b)

ICBN stands for International Code for Botanical Nomenclature.

243 (c)

The framework system of classification in which various taxonomic categories are arranged in an order of logical sequence is called **taxonomic hierarchy**, a taxonomic category of overall taxonomic arrangement. All categories together make taxonomic hierarchy. It is also called Linnaean hierarchy as it was first proposed by **C Linnaeus**. There are seven obligate categories-Kingdom, Division (in plants) or Phylum (in animals), Class, Order, Family, Genus and Species.

244 (d)

Although Bentham and Hooker's system of classification is not phylogenetic one, yet Ranales placed in the beginning of dicotyledons. The order-Ranales is generally regarded as primitive by most of the leading authors.







Huxley is known as the father of neo-taxonomy.

246 (a)

The branch of taxonomy, which is based on cytology, is known as **cytotaxonomy**. It includes the cytological study of chromosomes, i.e., number morphology, chromosome bahaviour, etc.

247 (c)

Out of four given categories, class is the largest category. Therefore, can categorises rest three categories; order, family and genus
Kingdom → Division/Phylum → Class → Order →
Family → Genus → Species

248 (d)

John Hutchinson proposed a phylogenetic system of classification in 1926 and 1934 (dicots and monocots) respectively in his book 'The families of flowering plants' which he revised in 1959.

249 (a)

National Botanical Research Institute is located at Lucknow.

250 (c)

The prime source of taxonomic studies is collection and identification of actual specimen. Nomenclature the present scientific method of naming the organism can be completed only when actual specimen is collected and identified

251 (d)

Biological or scientific name are generally written in italics at these are Greek or Latin words. The first word denotes genus and begin with capital letter, while second words denote species and starts with small letters

252 (c)

A species is a group of organisms, which are closely related and sharing a common gene pool. **John Ray** (1627-1705) introduced the term 'species' for any shole kind of living thing.

253 (b)

Mangifera indica, scientific name consists of two words a generic and another specific name. It is binomial system of nomenclature.

The first word denoting the genus start with capital letter, while specific epithets start with small letter

254 (c)

Metabolism is the sum of all the metabolic activities in body, i.e., anabolism and catabolism.

Anabolism is constructive process, while catabolism is a destructive process

255 (a)

MABP stands for Man and Biosphere Programme

256 (d)

In a scientific name, the first name denote/indicates the generic name of the organism, while second name indicates or stands for specific epithet or specific names

257 (b)

Solanum and Panthera are genera of family—Solanaceae and Felidae, respectively

258 (a)

0.1% mercuric chloride solution are used to prevent fungal attack on herbarium nepthalene and carbon disulphide are common pesticides

259 (d)

Taxonomic categories are the various grouping levels or rank in classification like kingdom (largest) and species (lowest category). So, here division and phylum are categories

260 (c)

John Ray (1627-1705) an english biologist described about 18,500 plants is three volumes of his book of *Historia Generalis Plantarum*

261 (d)

The general characteristic of life are growth, reproduction, consciousness, body organization metabolism, adaptation and death

262 (c)

Binomial nomenclature provide a distinct and proper scientific name to organism, each consisting of two words, first generic name and second specific name, which are derived from Latin language.

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266 (d)

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267 (c)

ICNB stands for International Code of Bacteriological Nomenclature

268 (c)

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269 (c)

ICVCN is the abbreviation of international Code of Viral Classification and Nomenclature. ICNCP stands for International Code of Nomenclature for 277 (c) **Cultivated Plants**

270 (c)

Taxon is used represent any rank in taxonomic hierarchy.

Royal Botanical Garden is located at (Kew) London in England.

There are about 492 (approximately 504) wildlife sanctuaries and 89 national park in India. Rest three statement are true

271 (a)

Experimental taxonomy is based on determination of genetic relationship, while cytotaxonomy is based on cytological study of chromosomes, i.e., behavior, number and morphology of chromosomes

272 **(b)**

Botanical garden allows ex situ conservation of gerplasm.

273 (a)

In unicellular organisms like bacteria, algae (unicellular) and Amoeba reproduction is increase in number of cells. i.e., synonymous with growth

274 (a)

In unicellular organisms like bacteria, algae (unicellular) and Amoeba reproduction is increase in number of cells. i.e., synonymous with growth

275 (b)

There are 14 reserve biosphere in India. Simlipal Biosphere reserve is located in Odisha

276 (b)

Systema Naturae was a work of Carolus Linnaeus. He describe about 4330 species of animal in this, while around 6000 species of plant had been described in Species Plantarum

A natural taxon means a group of similar, genetically, related organisms having certain distinct characters from other groups. A genus with single species is called monotypic genus

278 (d)

The arrangement of taxonomic categories is known as taxonomical hierarchy order either it is descending or ascending

279 (b)

Binomial system of classification was based on morphological characteristic of an organism

280 (d)

Umbelliferae of Apiaceae (carrot family) shows cup-shaped thalamus structure. Bentham and Hooker in his classification placed it under series-Calyciflorae.



