THE LIVING WORLD

BIOLOGY

Single Correct Answer Type

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 t	he basis of their cytological	l characteristics			
	c) The classification of organisms based on broad m	orphological characters				
	d) Delimiting various taxa of organisms and establish	hing their relationships				
2.	Phenetic classification of organism is based on		* * * * * * * * * * * * * * * * * * * *			
	a) Observable characteristics of existing organisms					
	b) The ancestral lineage of existing organism					
	c) Dendrogram based on DNA characteristics	4 (4	Y			
	d) Sexual characteristics)"			
3.	A is a collection of pressed, dried and preserved	plantsB labelled arrang	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-mounted	d d) A-Garden; B-mounted			
	mounted on thin film mounted on a paper sheet	on a iron sheet	on a paper sheet			
4.	Arrange the following in the ascending order of Linn	aean hierarchy.				
	a) Kingdom-Order-Species-Genus-Class-Family-Phylum					
	b) Kingdom-Family-Genus-Species-Class-Phylum-Order					
	c) Kingdom-Phylum-Class-Order-Family-Genus-Species					
	d) Species-Genus-Family-Order-Class-Phylum-Kingo	lom				
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. Choose the incorrect group from given below option					
	a) Shark, snake, whale, reptiles					
	b) Insect, spider, shrimp					
	c) Snail, squid, slug					
	d) Earthworm, millipede, leech					
7.	Systematic botany means					
	a) System analysis	b) Systematic arrangement				
	c) Systematic study of organelles and tissues	d) Methodical study of pla	_			
		identification, naming	and classificartion			
8.	What is the symbol of Bombay Natural History Socie	-	1) 11			
~	a) Kingfisher b) Eagle	c) Hornbill	d) Hawaiin Goose			
9.	Which is called 'sexual system' of classification?	N 7.1	1) m 11			
10	a) Bentham and Hooker b) Tippos	c) Linnaeus	d) Takhtajan			
10.	Identify from the following the only taxonomic categ	•				
11	a) Genus b) Species	c) Phylum	d) Kingdom			
11.	Process of metabolism leads to	h) Dorrolomust				
	a) Growth	b) Development				
	c) Functions of living body	d) All of these				

12.	Which of the following ta	xonomic ranks contain o	organism most similar to	one another?
	a) Class	b) Genus	c) Family	d) Species
13.	Which is first step in taxo	nomy?		
	a) Description of the orga	anism		
	b) Identification of the or	ganism		
	c) Nomenclature of the o	rganism		
	d) Classification of the or	ganism		
14.	What is the prime source	of taxonomic studies?		
	a) Collection of actual spe	ecimens of organisms sp	ecies	
	b) Identification of actual	specimen of organism s	pecies	
	c) Both (a) and (b)			
	d) None of the above			
15.	_	-	nation about habitat, dis	tribution, climate description
	and index of plant found	in a particular area		
	a) Manual	b) Flora	c) Monograph	d) Key
16.	In hierarchial classification	on, class occupied a place		
	a) Kingdom and phylum	_	c) Phylum and order	d) Family and genus
17.	Select the correct option	from the following		
	a) Mule can reproduce			
	b) Worker bee undergoes	=	te new progeny	*
	c) Mule and worker bee	do not reproduce		
	d) None of the above			
18.	•	=		
	a) As each higher taxonor		s below groups groups/ca	ategories
	b) It is helpful to establish			
	c) All taxonomic categori			
4.0	d) Taxonomic group show		d have no evolutionary re	elationship
19.	Biological organization in			D.M
20	a) Sub-microscopic level		c) Cellular level	d) Mixture level
20.	Arrange the following in		cteristic	
	I. Family II. Genus III. C		h) Familia a Class a C	Name of Control of
	a) Class < Family < Genus		b) Family < Class < C	•
21	c) Species < Genus < Fam		d) Class < Genus < S	
21.	Among the following cho I. growth	ose the properties show	ii by the living organism	exclusively?
	II. increase in mass			
	III. self-replication ability	7		
	IV. response to touch stin			
	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	•		
	a) Mode of nutrition	ig reature is smared by an	i iiviiig organisiii ac aii iii	ici ai cinai ievei
	b) Cellular organization			
	c) Nature of protoplasmi	c-composition		
	d) Growth by cell division	=		
23.			ed plantsB labelled a	rranged systematically for
	further reference	, <u>F</u>	<u>,</u>	J ,
	A and B in the above state	ement refers to		
	a) A-Herbarium; B-moun			
	b) A-herbarium; B-moun			
	c) A-Museum; B-mounted			
	d) A-Garden; B-mounted			

<i>2</i> 4.	By which chemical specimen for herbaria are treate	d to prevent fungal attack	
	a) 0.1% mercuric chloride		
	b) 0.1% mercurous chloride		
	c) Carbon disulphide		
	d) Acetic acid		
25.	Who proposed binomial system of nomenclature?		
	a) Candolle b) Linnaeus	c) Bentham	d) Hutchinson
26.	Term 'Taxonomy' was coined by		
	a) De Candolle b) Takhtajan	c) Linnaeus	d) Aristotle
27.	A group of interconnected genera is called a		
	a) Family b) Class	c) Phylum	d) Order
28.	True regeneration is found in		
	a) Amoeba b) Hydra	c) Planaria	d) Bacteria
29.	Select true statement from the following and choose	e the right answer from the	option given below
	I. Human's scientific name is <i>Homo sapiens</i>		
	II. Genera Plantarum is written by John Ray		
	III. Highest taxonomic categories is division	. C 4	Y
	IV. Taxonomic group of any rank is taxon		•
	V. A group of closely related species of organism rep	oresent genus	
	VI. The term 'systematic' was coined by de Candolle		
	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 nuclei		
	a) Griffith	b) WM Stanley	_
	c) Dr Salvador Huria and Dr Max Delbruk	d) Dr NW Pjrie and 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?	3.50	13 xx . 1 .
~-	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		
26	d) Tokyo in Japan	• _	
36.	A group of organisms with similar trait of any rank		J) C.,;
27	a) Taxon b) Family	c) Genus	d) Species
37.		a) I imma anna	J) Damida
20	a) Julian Huxley b) Bateson	c) Linnaeus	d) Darwin
აგ.	A genus with a single species is called	a) Manatura	d) Crypture o
20	a) Typical b) Polytype	c) Monotype	d) Syntype
39.			
	a) Man and Biosphere Programme b) Man and Biosphere Protection		
	b) Man and Biosphere Protection c) Man and Biosphere Conservation and Protection		
	c) Man and Biosphere Conservation and Protectiond) All of the above		
	WEARE OF THE GUOVE.		

40.	Which of the following is correctly sequenced?			
	a) Phylum, class, order, family	b) Phylum, order, class, g	genus	
	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 specimer	ns of all the species of	
	alleles of all genes in a crop	botanical garden		
	c) Collection of hybrid varieties of plants	d) Seed or pollar collection	on of threatened species of a	
		group		
42.	Species is considered as		^()	
	a) Largest taxon of taxonomy/classification		\wedge	
	b) Key of taxonomy/classification			
	c) Smallest taxon of faxonomy/classification			
	d) Both small and largest unit of taxonomy/classific			
43.	Two or more species which occupy the same or ove			
	a) Sympatric b) Allotropic	c) Sibling	d) Sub-species	
44.	Who coined the term 'Phylum'?) T . W . I . I . A		
	a) Cuvier b) Aristotle	c) Ernst Haeckel	d) Hooker	
45.	Which of the following statements regarding univer		s wrong?	
	a) The first word in a biological name represents th	_		
	b) The first word denoting the genus starts with a c			
	c) Both the words in a biological name, when handy	-	erlined	
4.6	d) Biological names are generally in Greek and writ	ten in italics		
46.) ml 1/2/d	D. Direct Lederer	
	a) Species b) Malvaccae	c) Thalmiflorae	d) Dicotyledonae	
47.) D H HAT III 1	DAMAG. 1	
40	a) Ernst Mayr b) Carolus Linnaeus	c) R H Whittaker	d) W M Stanley	
48.	What is the symbol of Bombay Natural History Socio		d) Harratta Caraa	
40	a) Kingfisher b) Eagle	c) Hornbill	d) Hawaiin Goose	
49.	Two different genera are classified in the same taxo	nomic category family. wn	ich statement is correct	
	about their classification?	h) A different along and d	ifferent and an	
	a) The same class, but different speciesc) The same phylum, but different class		b) A different class and different orderd) A different kingdom and different phylum	
50	Metabolism can be best defined as	u) A umerent kinguom a	na amerent phytam	
50.	a) The process in which a chemical is formed inside	a hody		
	b) The process in which a chemical is destroyed ins	•		
	c) The sum total all of chemical reactions only occur	-		
	d) A complex construction process only	iring in a body		
51	Among the following choose the properties shown by	ov the living organism exclu	ısively?	
J 1.	I. growth	by the hiving organism exerc	asively.	
	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 occupied a place b		a) 1, 11, 111 and 1 v	
- -	a) Kingdom and phylum b) Order and family	c) Phylum and order	d) Family and genus	
53.		•	,, and gondo	
	a) The first word in a biological name represents th			
	b) The first word denoting the genus starts with a co	=		
	c) Both the words in a biological name, when hands	-	erlined	
	d) Biological names are generally in English and wr			
54.	Who set up the first herbarium?			
	<u>.</u>			

	a) Engler and Pranti	b) Bentham	c) Luca Ghini	d) Theophrastus		
55.	Who is regarded as Father	==		25.7.		
	a) Aristotle	b) Theophrastus	c) Darwin	d) Linnaeus		
56.		Among the following which is a common phenomenon exhibited by living and non-living organisms to				
	show the feature of growt	ch?	127 111111			
	a) Increase in mass		b) By cell division			
	c) Increase in replication		d) By cell differentiation			
57.	A group of interconnected	=) pl _1	D 0 1		
=0	a) Family	b) Class	c) Phylum	d) Order		
58.	I. Family II. Genus III. Cl	iscending similar character ass IV. Species	ristic			
	a) Class < Family < Genus	-				
	b) Family < Class < Genus	=		A . Y		
	c) Species < Genus < Fam	=				
	d) Class < Genus < Species					
59.	•	•	votic organisms were classi	fied under kingdom		
	a) Protista	b) Monera	c) Animalia	d) Plantae		
60.	Largest herbarium in Indi	•	10			
	a) Madras Herbarium Coi					
	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	ite, Dehradun (UA)				
61.	In which of the following,	the usual taxonomic hierar	chy is not followed?			
	a) Polypetalae and Gamor	petalae	b) Gamopetalae and Mono	ochlamydae		
	c) Monochlamydae and m	nonocots	d) None of the above			
62.	Scientific name are printed (with english) and derived from					
	a) Bold and English					
	b) Italics and Latin					
	c) Italics and German					
	d) Italics and French					
63.	What is the basic unit of c			N 6		
	a) Family	b) Order	c) Species	d) Genus		
64.	Solanum and Panthera a			D 0 1		
. .	a) Genus and species	b) Genus and genus	c) Species and species	d) Only species		
65.		species was formulated by	.) II I	D.T		
((a) Mayr	b) Stebbins	c) Heywood	d) Love		
66.		on act came into force in/w		J) 100 <i>C</i>		
67	a) 1978	b) 1982	c) 1972	d) 1986		
67.	Biodiversity can be best d a) Occurrence of number					
	b) Species and ecosystem					
7	c) Variety of life in an eco	•				
	-	system es and ecosystem of a give	n region			
68	Who had written <i>System</i>		Tregion			
00.	a) Ernst Mayr	b) Carolus Linnaeus	c) RH Whittaker	d) WM Stanley		
69	•		on exhibited by living and n	•		
0).	show the feature of growt	-	on eximpleed by hiving and h	ion nymg organisms to		
	a) Increase in mass	 -				
	b) By cell division					
	c) Increase in replication	rate				
	d) By cell differentiation					

70.	Who coined the term 'Species'?		
	a) John ray b) Aristotle	c) Linnaeus	d) Cuvier
71.	Binomial nomenclature means that every orga	nism has	
	a) Two names one scientific and other popular	•	
	b) One scientific name consisting of a generic a	and a specific epithet	
	c) One name given by two scientist		
	d) Two names, one Latinize and other of the pe	erson	
72.	Which one among the following is accurately a	rranged in descending specifi	city
	a) Species \rightarrow Family \rightarrow Class \rightarrow Order \rightarrow Division	on	
	b) Species \rightarrow Genus \rightarrow Division \rightarrow Class \rightarrow King	dom	
	c) Species \rightarrow Genus \rightarrow Family \rightarrow Order \rightarrow Class		4
	d) Class \rightarrow Order \rightarrow Family \rightarrow Genus \rightarrow Species		
73.	What is illustrated by the statement 'Nothing li	ives forever, yet life continues	i'?
	a) Metabolism b) Embryogenesis	c) Reproduction	d) Replication
74.	Regeneration was first discovered in		
	a) <i>Hydra</i> b) <i>Planaria</i>	c) Sponges	d) Amoeba
75.	Select the correct statement from the following	g statements	·
	I. Increase in mass and increase in number of it	ndividuals are twin character	istics of growth
	II. Metabolic reactions can also be demonstrate	ed outside the body in isolated	d cell-free systems
	III. 'Response to stimuli' is a defining property	of living organisms	
	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	2?	
	a) Genus b) Species	c) Family	d) Order
77.	In plants growth occur by throughout their l	ife span.	
	Choose an appropriate option to complete the	given NCERT statement	
	a) Cell dedifferentiation b) Cell differentiation	on c) Cell multiplication	d) None of these
78.	In which of the following, metabolic reactions t	take 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 o		
	a) Sympatric b) Allotropic	c) Sibling	d) Sub-species
80.			
	a) Species b) Sub-species	c) Sub-genus	d) Ecotype of organism
81.			
00	a) Genus and species b) Order and class	c) Class and genus	d) Order and genus
82.	A defining property or characteristic of living of	•	
	a) Increase in mass	b) Development	
00	c) Response to external stimuli	d) Growth	1 . 1 . 1 1
83.	is a book (taxonomic acid) which contain inf	ormation about habitat, distri	bution, climate description
	and index of plant found in a particular area	2 M	J) 17.
0.4	a) Manual b) Flora	c) Monograph	d) Key
84.	Natural system of classification is given by	Olas II.a Dan II.	Dr.d
0.5	a) Bentham and Hooker b) Carolus Linnaeus		d) Engler and Prantl
85.	Five kingdom scheme to classify living being w	= -	J) D II IAIL: 44-1
0.0	a) J B S Haldane b) G G Simpson	c) E Mayr	d) R H Whittaker
გ ნ.	In majority of higher animals and plants repro-	_	
	a) Mutually exclusive events	b) Synonymous events	j
07	c) Both (a) and (b) Which of the following classification is based in	d) None of the above	-ona?
ο/.	Which of the following classification is based in	n some moi phological chafact	.C13:

	a) Artificial	b) Natural	c) Phylogenetic	d) Both (A) and (c)
88.	New systematic introduc	ed by Sir Julian Huxley is al	so called	
	a) Phenetics	b) Cladistics	c) Biosystematics	d) Numerical taxonomy
89.	Who coined the term 'Phy	ylum'?		
	a) Cuvier	b) Aristotle	c) Ernst Haeckel	d) Hooker
90.	Evolutionary history of a	n organism is known as		
	a) Phylogeny	b) Ancestry	c) Paleontology	d) Ontogeny
91.	Distinction of prokaryota	and eukaryote is based on		
	a) Cell organelles only	b) Chromosome only	c) Nucleus only	d) All of these
92.	The phylogenetic system	of classification was put for	rth by	
	a) Carolus Linnaeus		b) George Bentham and Jo	oseph Dalton Hooker
	c) Aristotle		d) Adolf Engler and Karl F	Prantl
93.	Term 'Taxonomy' was co	ined by		
	a) De Candolle	b) Takhtajan	c) Linnaeus	d) Aristotle
94.	Largest herbarium in Ind	ia is		
	a) Madras Herbarium Co	imbatore (TN)		V ·
	b) Central, National Herb	arium (Indian Botanical Ga	rden) Sibpur, Kolkata (WB)	
	c) Herbarium of National	Botanical Research Institu	te, Lucknow (UP)	
	d) Forest Research Instit	ute, Dehradun (UA)		
95.	Who set up the first herb	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	3
	c) Chemical constituents	_	d) Floral characters	
97.	A living organism can be	easily distinguished from n	on-living on the basis of	
	a) Responsiveness to tou	ch stimuli	> '	
	b) Movement and growth			
	c) Reproduction			
	d) Interaction with envir	onment and progressive ev	olution	
98.	The term 'Taxonomy' wa	s introduced by		
	a) de Candolle	b) Bentham and Hooker	c) Linnaeus	d) Huxley
99.	A species is a group of or	ganisms which		
	a) Can interbreed freely			
	b) Do not interbreed			
	c) Can live together	,		
	d) Can interbreed occass	ionally		
100.		ny is based on the determin	ation of genetic relationshi	p?
	a) Experimental taxonom	ny		
	b) Numerical taxonomy			
	c) Cytotaxonomy			
	d) Biochemical taxonomy			
101.	Who coined the term 'Spe			
	a) John ray	b) Aristotle	c) Linnaeus	d) Cuvier
102.		ng branch is applicable to bo		
	a) Herpetology	b) Saurology	c) Taxonomy	d) Ichthyology
103.	-	t of organisms reproduce b	y fragmentation (asexual m	node of reproduction)?
	a) Amoeba, fungi and ear			
		ae and protonema of mosse	es	
	c) <i>Hydra</i> , fungi, <i>Amoeba</i> a			
	d) Earthworm, bacteria a	· ·		
104.	Which one of the taxonor	nic aids can give comprehe	nsive account of complete o	compiled information of any

	one genus or family at a p	articular time?				
	a) Taxonomic key	b) Flora	c) Herbarium	d) Monograph		
105.	A 'texa' differ from 'taxon	due to				
	a) Being a higher taxonor	nic category than taxon				
	b) Being a lower taxonom	- -				
	c) Being a plural of taxon	= -				
	d) Being singular of taxon					
106.		gested for phylum in classi	ification of plants?			
	a) Phylum	b) Sub-division	c) Division	d) Both (b) and (c)		
107.	Taxon is a/an	.,	.,	1) 11 (1) 1 (3)		
	a) Group of same species		b) Any rank in taxonomic	hierarchy		
	c) Group of similar gener	a	d) Sub-division of kingdo			
108.		assification was proposed	=	A Y		
	a) Linnaeus	b) Bentham	c) Hutchinson	d) Theophrastus		
109.	•	x Historia Generalis Plan	-	ay meepingaetas		
207.	a) Hutchinson	b) Lamarck	c) John Ray	d) Linnaeus		
110.	A taxon is a	b) Bamaron	of John Pay	a) Immaeas		
1101	a) Group of related specie	25	b) Group of related famili	es		
	c) Type of living organism		d) Taxonomic group of ar			
111.	The genus <i>Felis</i> includes	•	u) runonomio group or ui	.)		
	a) Tiger	b) Fish	c) Cat	d) Frog		
112.	Who is regarded as Fathe	•	c) dat	u) 110g		
	a) Aristotle	b) Theophrastus	c) Darwin	d) Linnaeus		
113.	•	pasted on herbarium sheet		a, macas		
110.	a) Lower RHS	b) Lower LHS	c) Upper RHS	d) Upper LHS		
114.	A germplasm collection is	•	cy opportuno	a) oppor nito		
	= =		ea in a herbarium or botan	ical garden		
	b) Collection of modern v			<i>G</i>		
	=	seeds having diverse allele	es of all genes in a crop			
			ed species of a group or are	ea		
115.	=	tham and Hooker includes				
	a) Seed plants showing abnormal forms of growth and development					
	b) Plants represented only in fossil state					
	c) Plants described in the literature but which Bentham and Hooker did not see in original					
		uld not be placed satisfacto		· ·		
116.		anisms can be observed by	_			
	a) Counting the mass of c	ultured cells				
	b) Analysing the amount of nutrient absorb by living organism					
	c) Growth can not be observed					
	d) <i>In vitro</i> culture by simp	oly counting the number of	f cells under microscope			
117.	Which of the following ar	e considered as the twin cl	naracteristics of growth?			
	I. Responses to stimuli		· ·			
	II. Increases in mass					
	III. Increases in the numb	er of individuals				
	IV. Increases in width					
	a) II and IV	b) III and IV	c) II and III	d) I, II, III and IV		
118.	Biodiversity can be best d	=	-	-		
	a) Occurrence of number					
	b) Species and ecosystem					
	c) Variety of life in an eco	=				
	d) Totality of genes, species and ecosystem of a given region					

119. Scie	entific name are printed	d (with english) and derive	ed from		
a) I	Bold and English	b) Italics and Latin	c) Italics and German	d) Italics and French	
120. A li	20. A living organism can be easily distinguished from non-living on the basis of				
a) F	Responsiveness to touc	h stimuli	b) Movement and growth		
c) F	Reproduction		d) Interaction with enviro	nment and progressive	
			evolution		
121. In f	ive kingdom classificati	ion the unicellular prokary	otic organisms were classi	fied under kingdom	
a) F	Protista	b) Monera	c) Animalia	d) Plantae	
122. In a	angiosperms floral featu	ares are commonly used fo	or identification, why?		
a) I	Flower can be preserve	d easily	-		
b) F	Flower are attractive to	work with			
c) F	Flower have aroma and	different colour			
d) F	Reproductive parts are	more conservative		A . Y	
123. Tru	ie regeneration is found	l in			
a) <i>A</i>	Amoeba	b) <i>Hydra</i>	c) Planaria	d) Bacteria	
124. The	e basic unit of classificat	tion is			
a) S	Species	b) Genus	c) Family	d) Phylum	
125. Wh	ere is Biosphere Reserv	ve Simlipal located?			
a) I	Kerala	b) Odisha	c) Asom	d) Sikkim	
126. Wh	ere labelling is done/pa	asted on herbarium sheet?			
a) I	Lower RHS	b) Lower LHS	c) Upper RHS	d) Upper LHS	
127. Wh	o is regarded as Father	of Taxonomy?			
a) I	Hooker	b) Linnaeus	c) Aristotle	d) De Candolle	
128. Bio	nomial nomenclature v	vas first issued in	$G_{\lambda}(\mathcal{C})$		
a) S	Systema Naturae	b) Genera Plantarum	c) Genera Animalium	d) Species Plantarum	
129. Nat	tional wildlife protectio	n act came into force in/w	as inacted in		
a) 1	1978	b) 1982	c) 1972	d) 1986	
130. A ta	axon is a				
a) (Group of related species	S			
b) (Group of related familie	es			
c) T	Гуре of living organism				
d) 7	Гахопотіс group of any	y ranking			
131. A 't	exa' differ from 'taxon'	due to			
a) I	Being a higher taxonom	ic category than taxon			
b) I	Being a lower taxonomi	c category than taxon			
c) I	Being a plural of taxon				
d) I	Being singular of taxon				
132. Cor	rect name is				
a) <i>b</i>	brassica indica		b) Magnifera Indica		
c) S	SOLANUM MELONGINA		d) Mimosa Pudica		
133. Inci	rease in body mass can	be considered a criterion	for growth		
a) I	n living being	b) Non-living being	c) Both (a) and (b)	d) None of these	
134. Wh	o is regarded as Father	of Taxonomy?			
a) I	Hooker	b) Linnaeus	c) Aristotle	d) De Candolle	
135. Wh	ich one of the following	g taxonomic categories top	the hierarchy of categories	s?	
a) (Order	b) Division	c) Class	d) Family	
136. In f	ive kingdom classificati	ion, the eukaryotes were a	ssigned under how many k	ingdoms?	
a) (Only four kingdom				
_	All five kingdom				
=	Only two kingdom				
d) (Only three kingdom				

137. Which taxonomical aid provide all inform	mation about a particular taxon like	order or family
a) Herbarium b) Catalogue	c) Taxonomic key	d) Monograph
138. Binomial system of nomenclature was gi		,
a) Engler b) Linaeus	c) Prantl	d) Both (a) and (C)
139. In which of the following, metabolic read	ctions take place?	
a) In living organism only	•	
b) Both in living and non-living organism	m	
c) In isolated cell free systems		
d) Both (a) and (c)		
140. What is the old name of Indian Board of	wildlife	
a) National Board of Wildlife Animal		
b) Central Board of Wildlife		
c) Board of Wildlife		
d) Wildlife Protection Board		
141. According to binomial nomenclature, sci	ientific name of an organism consist	s of
a) Generic name b) Specific ep		d) None of these
142. Different (various) group of ranks or lev	rels in classification is known/called	as
a) Category b) Order	c) Genera	d) Taxon
143. Species is considered as		
a) Largest taxon of taxonomy/classificat	tion	
b) Key of taxonomy/classification		
c) Smallest taxon of faxonomy/classifica		
d) Both small and largest unit of taxonor		
144. Which one of the following is the feature		
a) Possession of visceral slits	b) Possession of a vent	
c) Possession of closed vascular system	Y .	al tubular nervous system
145. Choose the correct classification for the	given plant	
Inflorescence WW		
	` >	
	Y	
evo con Leaves		
a) Dlantae Anglesayam Managatuladan		
a) Plantae, Anglosperm, Monocotyledon	S	
b) Plantae, Anglosperm, Dicotyledonsc) Plantae, Gymnosperm, Monocot		
d) Plantae, Pteridophytes, Dicot		
146. Scientific study of diversity of organisms	s and their evolutionary relationship	ic
a) Morphology b) Anatomy	c) Taxonomy	d) Systematics
147. Different (various) group of ranks or lev		
a) Category b) Order	c) Genera	d) Taxon
148. The concept that monocots are more pri	•	aj ranon
a) Bentham and Hooker b) Theophras		d) Engler and Prantl
149. A defining property or characteristic of l	-	-)
a) Increase in mass	3 0	
b) Development		
c) Response to external stimuli		

d) Growth			
150. What is the old name of	Indian Board of wildlife		
a) National Board of Wi			
b) Central Board of Wild	llife		
c) Board of Wildlife			
d) Wildlife Protection B	oard		
151. Species are consider as			
a) Artificial concept of h	uman mind which cann	ot be defined in absolute term	ıs
b) Real units of classification	=	mists	
c) Real basic units of cla	ssification		
d) The lowest units of cl	assification		
152. In plants growth occur b	y throughout their lif	e span.	
Choose an appropriate of	ption to complete the g	iven NCERT statement	
a) Cell dedifferentiation	b) Cell differentiation	n c) Cell multiplication	d) None of these
153. Growth in unicellular or	ganisms can be observe	d by	
a) Counting the mass of	cultured cells		
b) Analysing the amoun	t of nutrient absorb by l	iving organism	*
c) Growth can not be ob	served		
d) <i>In vitro</i> culture by sin	iply counting the number	er of cells under microscope	
154. Largest herbarium in th	e world is		
a) Conservatory and Bo			
b) New York Botanical (larden		
c) Royal Botanical Gard			
d) British, Museum of N	_		
155. Taxonomic hierarchy re			
	-	assification of plants and anin	
, , ,		e nomenclature of plants and	
-	_	rked on taxonomy of a specie	s or group
d) Classification of a spe			
		itary zygomorphic and epigyr	
		mens and multiple fruit with	exalbuminous seeds. What is
the ratio of advanced an	A -		
a) 1:2	b) 2:3	c) 1:1	d) 3:2
157. A germplasm is a			
	, -	alleles of all genes in a crop	
b) Collection of specime	•	otanical garden	
c) Collection of hybrid v	=		
d) Seed or pollar collect			
158. Which one of the follow			
a) Genus	b) Species	c) Family	d) Order
159. Binomial system of class			
a) Embryology	b) Morphology	c) Cytology	d) Anatomy
160. Which is not a category?			
a) Asteraceae/Fabaceae		c) Phylum	d) Class
		ect answer from the option gi	ven below
I. Taxon is a group of rel	•		
II. <i>Homo sapiens</i> is the		(T. 1. 1)	
III. Royal Botanical Gard			
IV. Dudhwa National Pa	-		
		92 National Parks in India	
vi. when specific name	is identical to generic na	ame it is an example of tauton	vm

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 c) II and III d) I, II, III and IV a) II and IV b) 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) $30 \times 40 \text{ cm}, 6 \times 12 \text{ cm}$ b) $29 \times 41 \text{ cm}, 7 \times 14 \text{ cm}$ 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, Gymnosperm, Monocot d) Plantae, Pteridophytes, Dicot 170. Which one is correctly written scientific name? a) Panther Tigris b) Mangifera indica c) Pucnthera Leo d) Columnba LIVEA 171. New systematics introduced by Sir Julian Huxley is also called as a) Phonetics b) Cladistics c) Biosystematics d) Numerical taxonomy 172. Which one of the category contain the least similar characteristic to one another?

b) Order

173. Who first proved that virus was made up of a nucleic acid and protein?

c) Family

d) Division

	a) Griffith	b) WM Stanley	c) Dr Salvador Huria and Dr Max Delbruk	d) Dr NW Pjrie and Dr FC Bawden
174	. In five kingdom classificat	ion, the eukaryotes were a	issigned under how many k	ingdoms?
	a) Only four kingdom	b) All five kingdom	c) Only two kingdom	d) Only three kingdom
175	. Select the correct stateme	nt from the following state	ements	
	I. Increase in mass and inc	crease in number of individ	luals are twin characteristi	cs of growth
	II. Metabolic reactions can	also be demonstrated out	side the body in isolated ce	ll-free systems
	III. 'Response to stimuli' is	a defining property of livi	ng organisms	
	a) I and II	b) II and III	c) I and III	d) I, II and III
176	. In Mangifera indica, the	word <i>Mangifera</i> is a		
	a) Genus	b) Species	c) Variety	d) Order
177	. In majority of higher anim	als and plants reproduction	on and growth are	
	a) Mutually exclusive ever	nts		
	b) Synonymous events			
	c) Both (a) and (b)			
	d) None of the above			V
178	. Binomial nomenclature m	eans		
	a) A scientific name, which	h consist of two words givi	ing a generic name and a sp	ecific name
	b) One name is given by to	wo scientists		
	c) Two name, one vernacu	ılar and one scientific		
	d) Two name, one in Latin	and other is a named of p	erson	
179	. 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
180	. The biological definition o	of a species depends on	G_{i}, V_{i}	
	a) The geographical distri	bution of two groups of or	ganism	
	b) Reproductive isolation	of two groups of organism		
	c) Anatomical and develop	pment differences between	n the two groups of organis	m
	d) Difference in the adapt	ation of two groups of org	anism	
181	. Which is the only kingdon	n occupied by BGA, nitroge	en fixing bacteria and metha	anogenic bacteria in five
	kingdom classification?			
	a) Plantae	b) Protista	c) Monera	d) Fungi
182	. What is the basic unit of c	lassification?		
	a) Family	b) Order	c) Species	d) Genus
183	. Which of the following is a	a category?		
	a) Division	b) Phylum	c) Viruses	d) Both (a) and (b)
184	. Distinction of prokaryota	and eukaryote is based on		
	a) Cell organelles only			
	b) Chromosome only			
	c) Nucleus only			
	d) All of these			
185	. Cladistics can be defines a	S		
	a) The relationship betwe	en sub-species and species	S	
	b) Relationship between t	wo most forward races		
	c) Relationship between e	endangered and surviving	species	
	d) Method of classification	n that attempt to interface	phylogenetic relationship	
186	. Why hierarchiral taxonom	nic system is used?		
	a) As each higher taxonon	nic category contains its be	elow groups groups/catego	ries
	b) It is helpful to establish	ed classifications		
	c) All taxonomic categorie	es reflect common habitats		
	d) Taxonomic group show	s similar characters and h	ave no evolutionary relatio	nship
187	. Which one among the follo	owing is accurately arrang	ed in descending specificity	7

c) Species → Genus -	→ Class → Order → Division → Family → Order → Class ncorporated and integrated w	d) Class → Order → Famil	= =
a) Prophages	b) DNA	c) RNA	d) Both (a) and (c)
189. Process of metabolis	m leads to		
a) Growth			
b) Development			
c) Functions of living	g body		
d) All of these			
190. The suffix 'phyta' ind	icates		
a) Family	b) Class	c) Order	d) Division
191. A group of organisms	s with similar trait of any rank	is	
a) Taxon	b) Family	c) Genus	d) Species
-	ding arrangement of taxonomi	=	
a) Classification	b) Key	c) Taxonomy	d) Hierarchy
193. A group of inbreeding	= =		X
a) Order	b) Species	c) Family	d) Genus
194. Regeneration was fir			,
a) <i>Hydra</i>	b) <i>Planaria</i>	c) Sponges	d) Amoeba
-	the statement 'Nothing lives		
a) Metabolism	b) Embryogenesis	c) Reproduction	d) Replication
196. ICVCN stands for			
	e of Virus Nomenclature		
=	e of Valuation in Nomenclature		
•	e of viral Classification and No	menclature	
=	e of Virulence Nomenclature	. J f	
	um, first and second word star	na for, respectively	
a) Genus, generic nar			
b) Specific epithet spc) Specific name and			
d) Generic name and			
•	a, the word <i>Mangifera</i> is a		
a) Genus	b) Species	c) Variety	d) Order
•	rtificial system of classification	•	a) order
-	er b) Linnaeus system	c) Engler and Prantl	d) Bessey
200. Select the correct opt		e, Engler and Franci	a, bessey
a) Mule can reproduc	_	b) Worker bee undergoes	reproduction to generate
, in the second		new progeny	
c) Mule and worker l	bee do not reproduce	d) None of the above	
201. Which is not a catego	-	,	
a) Asteraceae/Fabac	-	c) Phylum	d) Class
	ncorporated and integrated w		red as
a) Prophages	b) DNA	c) RNA	d) Both (a) and (c)
203. In angiosperms flora	l features are commonly used	for identification, why?	
a) Flower can be pre	served easily		
b) Flower are attract	ive to work with		
c) Flower have arom	a and different colour		
	s are more conservative		
	pressed and preserved plants	specimens are kept	
a) Herbarium	b) Museum	c) Botanical garden	d) Both (a) and (c)
205. Which one is the imp	ortant function of botanical ga	arden?	

	a) Allow ex situ conserva	ition of germplasm						
	b) Are place for recreation	on						
	= =							
	-							
206			the right answer from the	ontion given helow				
200.		-	the right answer from the	option given below				
		=						
		= '						
	-	-						
		_		A))'				
				Y				
		was coined by de Candolle						
			=					
207.	= = =	_		~\\.\\				
	•		-					
208.	Which is the only kingdo kingdom classification?	m occupied by BGA, nitroge	en fixing bacteria and meth	nanogenic bacteria in five				
	a) Plantae	b) Protista	c) Monera	d) Fungi				
209.	Increase in body mass ca	n be considered a criterion	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	ım are grouped below. Cho	ose the incorrect group fro	om given below option				
	a) Shark, snake, whale, re	eptiles	b) Insect, spider, shrimp					
	c) Snail, squid, slug		d) Earthworm, millipede, leech					
211.	a) Plantae b) Protista c) Monera d) Fungi 9. Increase in body mass can be considered a criterion for growth a) In living being b) Non-living being c) Both (a) and (b) d) None of these 10. Animal of the same phylum are grouped below. Choose the incorrect group from given below option a) Shark, snake, whale, reptiles b) Insect, spider, shrimp							
	a) Increase in size	4	b) Response to stimuli					
	c) Self organisation		d) Growth and reproduc	tion				
212.	The concept of genus wa	s proposed by	,					
	a) John Ray	b) Tourne Fort	c) Hooker	d) Bessey				
213.	Which one is the correct	hierarchical order in Taxon	nomy?					
	a) Genus <species<class< td=""><td><order< td=""><td>b) Genus<class<order></class<order></td><td>family</td></order<></td></species<class<>	<order< td=""><td>b) Genus<class<order></class<order></td><td>family</td></order<>	b) Genus <class<order></class<order>	family				
	= = = = = = = = = = = = = = = = = = =		=					
214.								
			0 7					
	•							
215.			n categorized rest all other	·s				
		=	=					
216	· · · · · · · · · · · · · · · · · · ·	•	•	aj oraci				
210.		-		4) 3800				
217		•	•	,				
217.	_							
				·				
210				•				
210.			Choruata is also exhibited	by addit tuilicate:				
	•							
	=	-						
242	=	-						
219.	= = =	= -		D.D. (1. 1				
00-	•	, .	•	d) Bentham and Hooker				
220.	The first phylogenetic sy	stem of plant classification	was proposed by					

	a) Engler	b) Engler and Prantl	c) Eicher	d) Bentham and Hooker
221	<u> </u>	evel of living being can be re	=	
	•	$r \rightarrow Individual \rightarrow Population$		
	=	→ Cellular → Tissue → Organ	=	dual
		e → Cellular → Molecular →		
	•	$r \rightarrow Tissue \rightarrow Organ system$	-	
222		ng taxonomic categories top	-	
	a) Order	b) Division	c) Class	d) Family
223	. Which one of the categor	y contain the least similar o		er?
	a) Class	b) Order	c) Family	d) Division
224	. Binomial system of nome	=		
	a) Julian Huxley	b) Bentham and Hooker	c) Linnaeus	d) Casper Bauhin
225	. Which is first step in taxo	onomy?		
	a) Description of the orga	anism	b) Identification of the or	ganism
	c) Nomenclature of the o	rganism	d) Classification of the org	ganism
226	. Among the following list	ed features, which is not a u	nique feature of living orga	nnisms?
	a) Increase in size		. (4	Y
	b) Response to stimuli			
	c) Self organisation			
	d) Growth and reproduct	tion		
227	. Which one is species?			
	a) Cannis	b) Pisum	c) Leo	d) Carnivora
228	. Biological organisation le	evel of living being can be re	epresented as	
	a) Sub-cellular → Cellula	$r \rightarrow Individual \rightarrow Population$	n h i	Cellular \rightarrow Tissue \rightarrow Organ
	a) bub centular / centula	i / marviduai / i opuiatioi	→ Organ systems → Inc	
		e → Cellular → Molecular →	(1)	$r \rightarrow Tissue \rightarrow Organ system$
222	Atomic		→ Population	
229	. Nomenclature given by L) DI 1	D.M
200	a) Binomial	b) Trinomial	c) Phylogenetic	d) Natural
230	. Two different genera are about their classification	classified in the same taxor?	nomic category family. Whi	ch statement is correct
	a) The same class, but di			
	b) A different class and d			
	c) The same phylum, but			
	d) A different kingdom a			
231		ence in the hierarchy of taxo	-	-
	a) Species-genus-family-		b) Division-order-class-fa	
	c) Division-class-family-	order-genus-species	d) Division-class-order-fa	mily-genus-species
232	. What name would be sug	gested for phylum in classi	=	
	a) Phylum	b) Sub-division	c) Division	d) Both (b) and (c)
233	. A species is a group of or	ganisms which		
	a) Can interbreed freely			
	b) Do not interbreed			
	c) Can live together			
	d) Can interbreed occass	ionally		
234	_	nt function of botanical gar	den?	
	a) Allow ex situ conserva	tion of germplasm		
	b) Are place for recreation	on		
	c) Plant diversity can be	observed		
	d) Provide natural habita	nt for wildlife		

235. Which one is the first biosphere reserve?

	a) Norkrek Biosphere Res	serve							
	b) Simlipal Biosphere Reserve								
	c) Pachmarhi Biosphere F	Reserve							
	d) Nilgiri Biosphere Reser	ve							
236.	Father of botany is								
	a) Aristotle	b) Robert Hooke	c) Darwin	d) Theophrastus					
237.	Two plants can be conclus	sively said to belong to the	same species if they	,					
	-								
	•								
		-	abolites						
	-	-							
238.	•								
		=	h) Simlinal Biosphere Res	erve					
	=								
239									
20).	= =			d) Roth (a) and (c)					
240	•		,						
240.		g leature is shared by all h		iliai ievei					
	•	composition							
2/1		=	uj di owtii by teli divisioli						
Z41.	_		t the mean how within the to	wan ahana					
	7.5			xon share.					
	· ·		AVY						
		- '		Д II Д III					
c) Pachmarhi Biosphere Reserve 236. Father of botany is a) Aristotle b) Robert Hooke c) Darwin d) Theophrastus 377. 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 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 (c) 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) Order is the assemblage of genera which exhibit a few similar characters. (II) Order is the assemblage of genera which exhibit a few similar characters. (III) Cat and dog are included in the same family-Felldae. (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 c) International Congress of Biological Name d) Indian Code of Botanical Nomenclature 243. The framework system of classification in which various taxonomic categories are arranged in order logical sequence is called a) Systematics b) Classification a) Herarchia Hooker's system of classification? a) The pacement of family-Asteraceae in the beginning of Gamopetalae d) The placement of family-Asteraceae in the beginning of Gamopetalae d) The placement of family-Asteraceae in the beginning of Gamopetalae d) The placement of froder-Ranals in the beginning c) Karyotaxonomy d) Adansonian taxonomy c) Nov-taxonomy d) Goussification based on chromosome number is a) Cytotaxonomy b) Numerical taxonomy		a) II and III							
242.		aniaal Nama	h) Intermeticual Code for l	Dataniaal Namanalatuus					
	=	_	•						
242	,		•						
243.		classification in which var	ious taxonomic categories a	ire arranged in order of					
	= =	1.3.61 (6) (1)) III 1	1) m					
			•	•					
244.	_			cation?					
	, .	•	ind monocots						
	,	•							
		=	ing of Gamopetalae						
0 4 =	-	r-Ranals in the beginning							
245.	-		12.4 (0.4.1)						
246		,	d) Adansonian taxonomy						
246.									
b) Similpal 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 c) Pachmarhi Biosphere Reserve d) Nilgiri Biosphere Reserve d) Nilgiri Biosphere Reserve c) Pachmarhi Biosphere Reserve d) Nilgiri Biosphere Reserve d) Nilgiri Biosphere Reserve c) Pachmarhi Biosphere Reserve d) Nilgiri Biosphere Reserve d) Nil		•							
247.									
	•		•	•					
248.	=		-	= =					
	•		c) Benson	d) Hutchinson					
249.									
	•		c) Mumbai	d) Chennai					
250									
250.	=								
250.	a) Collection of actual spe	cimens of organisms speci							
250.	a) Collection of actual speb) Identification of actual	cimens of organisms speci							

	d) None of the above			
251	. Choose the wrong staten	nents regarding universal r	ules of nomenclature	
		ological name represents th		
	•	ng the genus starts with a ca	•	
			vritten are separately under	rlined
	=	generally in English and wr	-	
252	The term 'species' was co			
	a) Aristotle	b) Engler	c) John Ray	d) Linnaeus
253	. Which one is correctly w	, ,	,, ,	
	a) Panther Tigris	b) Mangifera indica	c) Pucnthera Leo	d) Columnba LIVEA
254	Metabolism can be best of	, ,,	.,	
		a chemical is formed inside	a body	
		a chemical is destroyed ins		A Y
		emical reactions only occur	_	
	d) A complex construction			
255	MABP stands for	r r		
	a) Man and Biosphere Pr	rogramme		
	b) Man and Biosphere Pr	=	4//	
		onservation and Protection		
	d) All of the above			
256		first and second word stan	d for, respectively	
	a) Genus, generic name			
	b) Specific epithet specie	es		
	c) Specific name and ger			
	d) Generic name and spe		X)	
257	Solanum and Panthera)	
	a) Genus and species	b) Genus and genus	c) Species and species	d) Only species
258	-	men for herbaria are treate		, , , ,
	a) 0.1% mercuric chloric		b) 0.1% mercurous chlori	de
	c) Carbon disulphide		d) Acetic acid	
259	Which of the following is	a category?	,	
	a) Division	b) Phylum	c) Viruses	d) Both (a) and (b)
260	. Who has written the boo	k Historia Generalis Plan	tarum?	
	a) Hutchinson	b) Lamarck	c) John Ray	d) Linnaeus
261	Read the following featu	res and select the correct o	ption from the options give	n below with respect to
	living beings			
	I. They reproduce			
	II. They metabolise			
	III. They have cellular or	ganisation		
	IV. They have ability to r			
	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 no	omenclature, scientific nam	e of an organism consists of	f
	a) Generic name			
	b) Specific epithet			
	c) Both (a) and (b)			
	d) None of these			
263	Which one is species?			
	a) Cannis	b) Pisum	c) Leo	d) Carnivora
264	New systematics introdu	iced by Sir Julian Huxley is a	also called as	
	a) Phonetics	b) Cladistics	c) Biosystematics	d) Numerical taxonomy
265	Largest herbarium in the	world is		

a) Conservatory and Bo	otanical Garden, Geneva		
b) New York Botanical	Garden		
c) Royal Botanical Gard	den, Kew (London)		
d) British, Museum of N	Natural History		
266. Read the following feat	cures and select the correct of	option from the options g	given below with respect to
living beings			
I. They reproduce			
II. They metabolise			
III. They have cellular o	organisation		
IV. They have ability to	respond to stimuli		
a) I and III are true	b) I and II are true	c) Only III is true	d) All are true
267. Abbreviation for Interr	national Code of Bacteriologi	cal Nomenclature is	
a) ICBN	b) IC Bact N	c) ICNB	d) IC Bati N
268. Abbreviation for Intern	national Code of Bacteriologi	cal Nomenclature is	
a) ICBN	b) IC Bact N	c) ICNB	d) IC Bati N
269. ICVCN stands for			
a) International Code o	of Virus Nomenclature	b) International Code	of Valuation in Nomenclature
c) International Code o	of viral Classification and	d) International Code	of Virulence Nomenclature
Nomenclature			
270. Select true and false sta	atement and choose correct	answer from the option	given below
I. Taxon is a group of re	elated organism		
-			
III. Royal Botanical Gar	den is located in Bristol (En	gland)	
IV. Dudhwa National Pa	ark is located at Lakhimpur i	in UP	
V. There are about 89 v	wildlife sanctuaries and 492	National Parks in India	
VI. When specific name	e is identical to generic name	e it is an example of tauto	onym
a) True-I, III, V, False-II	I, IV, VI		
c) True-II, IV, VI, False-	·V, III, I		
		nation of genetic relation	nship?
	У		
· ·			
	_		
	• •	= =	-
		of the following set of o	rganisms?
	=		
	_		
II. They metabolise III. They have cellular organisation IV. They have ability to respond to stimuli a) I and III are true b) I and II are true c) Only III is true d) All are true 267. Abbreviation for International Code of Bacteriological Nomenclature is a) ICBN b) IC Bact N c) ICNB d) IC Bati N 268. Abbreviation for International Code of Bacteriological Nomenclature is a) ICBN b) IC Bact N c) ICNB d) IC Bati N 269. ICVCN stands for a) International Code of Virus Nomenclature b) International Code of Valuation in Nomenclature c) International Code of viral Classification and d) International Code of Virulence Nomenclature			
-	-		
-	-	-	=
	-		•
,	•	d) Unicellular algae ai	nd filamentous algae
-	-		12 GU 1 :
	,	c) Asom	d) Sikkim
) Division of	D range of
•	•	c) RH Whittaker	d) WM Stanley
277. A genus with a single s	pecies is called		

a) Typical b) Polytype c) Monotype d) Syntype 278. Ascending or descending arrangement of taxonomic categories is known as d) Hierarchy a) Classification c) Taxonomy b) Key 279. Binomial system of classification was based on a) Embryology b) Morphology c) Cytology d) Anatomy 280. Which series ends with the cohort umbellales in Bentham and Hooker's system of classification? a) Thalamiflorae b) Disciflorae c) Heteromerae d) Calyciflorae

THE LIVING WORLD

BIOLOGY

						: ANSW	/ER K	ŒΥ	:					
1)	a	2)	a	3)	b		d 145)	b	146)	d	147)	d	148)	d
5)	b	6)	d	7)	d		c 149)	c	150)	b	151)	c	152)	С
9)	c	10)	b	11)	d	•	d 153)	d	154)	С	155)	a		c
13)	b	14)	c	15)	b	4.65	c 157)	a	158)	b	159)	b	160)	a
17)	c	18)	a	19)	b	20) a	a 161)	c	162)	b	163)	c	164)	c
21)	c	22)	c	23)	b	24) a	a 165)	b	166)	a	167)	d	168)	c
25)	b	26)	a	27)	a	28) (c 169)	b	170)	b	171)	b	172)	d
29)	C	30)	b	31)	d	32) a	a 173)	d	174)	a	175)	d	176)	a
33)	b	34)	b	35)	b	36) a	a 177)	b	178)	a	179)	c	180)	b
37)	a	38)	c	39)	a	40) a	a 181)	c	182)	C	183)	d	184)	d
41)	a	42)	c	43)	b	44) a	a 185)	d	186)	a	187)	c	188)	a
45)	d	46)	a	47)	b	48) (189)	d	190)	a	191)	a	192)	d
49)	a	50)	c	51)	c	52) (c 193)	b	194)	a	195)	c	196)	c
53)	d	54)	c	55)	a	56) a	a 197)	d	198)	a	199)	b	200)	c
57)	a	58)	a	59)	b	60) l	b 201)	a	202)	a	203)	d	204)	a
61)	c	62)	b	63)	c	64) l	b 205)	a	206)	c	207)	a	208)	c
65)	a	66)	C	67)	a	68) l	b 209)	C	210)	d	211)	a	212)	C
69)	a	70)	a	71)	b	,	c 213)	C	214)	C	215)	C	216)	b
73)	C	74)	a	75)	d		b 217)	b	218)	a	219)	a	220)	C
77)	C	78)	d	79)	b	-	b 221)	b	222)	b	223)	d	224)	C
81)	d	82)	C	83)	b		a 225)	b	226)	a	227)	C	228)	b
85)	d	86)	b	87)	a	,	b 229)	a	230)	a	231)	d	232)	C
89)	a	90)	a	91)	d		d 233)	a	234)	a	235)	d	236)	d
93)	a	94)	b	95)	c	,	a 237)	a	238)	d	239)	a	240)	C
97)	C	98)	a	99)	a	,	a 241)	d	242)	b	243)	C	244)	d
101)	a	102)	С	103)	b	•	d 245)	C	246)	a	247)	C	248)	d
105)	C	106)	С	107)	b	,	c 249)	a	250)	C	251)	d	252)	C
109)	C	110)	d	111)	b	,	a 253)	b	254)	C	255)	a	256)	d
113)	a	114)	c			-	d 257)	b	258)	a	259)	d	260)	C
117)	C	118)		119)		=	261)	d	262)	c	263)	C	264)	b
121)	b	122)	d	123)	c	-	a 265)	С	266)	d	267)	С	268)	C
125)	b	126)	a	•	b	-	d 269)	C	270)	c	271)	a	272)	b
129)	C	130)	d	131)	c	-	a 273)	a	274)	a	275)	b	276)	b
133)	C	134)	b	-	b	•	a 277)	C	278)	d	279)	b	280)	d
137)	C	138)	b	139)	d	,	b							
141)	С	142)	d	143)	С	144) a	a							

THE LIVING WORLD

BIOLOGY

: 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

Division/Phylum

 \downarrow

Class

 \downarrow

Order

 \downarrow

Family

Ţ

Genus

 \downarrow

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.

48 (c)

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

 \downarrow

Division/Phylum

 \downarrow

Class

 \downarrow

Order

 \downarrow

Family

 \downarrow

Genus

 \downarrow

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.**

66 **(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

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 → Genus → Family → Order → 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 → Division/Phylum → Class → Order →
Family → Genus → 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)

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 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 $7\times12~\text{cm}$

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.

115 **(c)**

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 \rightarrow Division (Phylum) \rightarrow Class \rightarrow Order \rightarrow Family \rightarrow Genus \rightarrow 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** 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 7×12

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

171 **(b)**

small letter

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

174 (a)

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 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 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

199 **(b)**

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

206 **(c)**

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

207 (a)

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 non-living 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.

213 **(c)**

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 → Molecules → Biomolecules → 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

228 **(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 → 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.

245 (c)

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 $\text{Kingdom} \rightarrow \text{Division/Phylum} \rightarrow \text{Class} \rightarrow \text{Order} \rightarrow \text{Family} \rightarrow \text{Genus} \rightarrow \text{Species}$

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.

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

263 **(c)**

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

264 **(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

265 **(c)**

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

266 **(d)**

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

267 **(c)**

ICNB stands for International Code of Bacteriological Nomenclature

268 **(c)**

ICNB stands for International Code of Bacteriological Nomenclature

269 **(c**)

ICVCN is the abbreviation of international Code of Viral Classification and Nomenclature. ICNCP stands for International Code of Nomenclature for 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

277 **(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

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.