EXERCISE-I

	EALACISE-I					
	NOMENCLATURE, CLASSIFICATION, SPECIES CONCEPT		8.	The scientific naming of plants begain with publication of Linnaeus book :-		
1.	Most acceptable concept of species is :- (A) Static concept			(A) Genera plantarum	(B) Systema naturae	
				(C) Species plantarum	(D) Charaka sanhita	
	(B) Biological conc	ept	9.	With he down at immerced the opinion of		
	(C) Typological concept			Which book most impressed the opinion of taxonomists :-		
	(D) Genetic concept			(A) Enquiry into plants	(B) Origin of life	
2.	 Artificial system of classification classifies plants on the basis of :- (A) One or two characters (B) Phylogenetic trends (C) Many naturally existing characters 			(C) Genera plantarum		
				The basic smallest unit	of classifications is :-	
				(A) Genus	(B) Species	
				(C) Order	(D) All of the above	
	(D) None of the above		11.	Suffix for sub species i	s :-	
2	The term new systematics was introduced by :-			(A) Phytina	(B) Oideae	
3.	(A) Linnaeus	(B) Bentham		(C) Ineae	(D)None	
	(C) Hutchinson	(D) Huxley	12.	Individuals of same species having non-genetic differences due to environment are called :-		
4.	Group of organisms that closely resemble each other and freely interbreed in nature, constitute a:-			(A) Biotypes	(B) Ecotype	
				(C) Ecophenes	(D) None	
	(A) Species	(B) Genus	13.	Morphologically similar but reproductively		
	(C) Family	(D) Taxon		isolated species are cal		
5.	ICBN was first revised in :-			(A) Neontological spec	cies	
	(A) 1961	(B) 1964	\	(B) Sibling species		
	(C) 1975	(D) 1753		(C) Allopatric species		
6.	The term taxon refe	ers to ·-		(D) Morpho-species		
0.	(A) Name of a species		14.	Plant nomenclature me	ans :-	
	(B) Name of genus			(A) To give names to plants without any rules		
	(C) Name of family			(B) Nomenclature of plants under the international		
	(D) A taxonomic group of any rank			rules		
7.	The herbarium specimen on whose basis a new species is described for the first time is called as :-				lants in local language lants in english language	
			15.	Taxonomy refers to :-		
	(A) Syntype	(B) Holotype		(A) Plant classification (C) Plant C is		
	(C) Denotring α	(D) Neatres		(C) Plant affinity	(D) All the above	

(C) Paratype

(D) Neotype

16.	Which of the followi	ng is a correct name :-	24 .	Species living in different	ent geographical areas are
	(A) Solanum tuberosum			called :-	
	(B) Solanum Tuberos	sum		(A)Allochronic	(B)Allopatric
	(C) Solanum tuberos	um Linn.		(C) Sympatric	(D) Siblings
	(D)All the above		25.	A large number of unkn animals are believed to	own species of plants and
17.	Systematics deals wi			(A) Temperate forests	1
	(A) Classification (C) Plant description	(B) Nomenclature(D) Identification		(C) Taiga	(D) Tropical forest
18.	Scientific name of Mango plant is Mangifera		26.	Biological concept of	species proposed by :-
		apau in the above name		(A) Linnaeus	(B) Mayr
	Santapau refers to :-			(C) John Ray	(D) De Candolle
	(A) Variety of Mango(B) A taxonomist who proposed the present		27.	For higher plants, flowers are chiefly used as a basis of classification, because :-	
	nomenclature in honour of linnaeus			(A) These show a great variety in colour	
	(C) A scientist who for the first time described Mango plant			(B) It can be preserved eaisly	
	(D) A scientist who changed the name proposed by Linnaeus and proposed present name			(C) Reproductive parts are more conservative than vegetative parts	
				(D) None of these	
19.	Type specimen selected from the original material in case the holotype is missing, is called :-		28.	Individuals of same	species having genetic
	(A) Lectotype (B) Neotype		20.	Individuals of same species having genetic variation and occur in same environment are	
	(C) Syntype	(D) Paratype		called:-	
	(C) Syntype	(D) Paratype		(A) Biotypes	(B) Ecotype
20 .	Phylogeny refers to :	-		(C) Ecophenes	(D) Ecads
	(A) Natural classification		20	The hinemial gratem of	nomenalature was initially
	(B) Evolutionary classification		29.	The binomial system of nomenclature was initially proposed by :-	
	(C) Evolutionary history			(A) Magnus	(B) Bauhin
	(D) Origin of algae			(C) Caesalpinno	(D) Discorides
21.	Static concept of species is given by :-				
	(A) Linnaeus	(B) Bentham	30.	Biochemical resemblances are used in the	
	(C) Koch	(D) Mayr		identification of :-	
••				(A) Protistan species	
22.	In taxonomy the first step is :-			(B) Moneran species	
	(A) Identification	(B) Nomenclature		(C) Fungal species	
	(C) Classification	(D)Affinities		(D) Higher plants	
23.	The suffix – inae signifies the rank :-		31.	Concept of phylogeny was proposed by :-	
	(A) Tribe	(B) Subtribe		(A) John Ray	(B) Lamarck
	(C) Suborder	(D) Sub family		(C) Ernest Haeckel	(D) Darwin

					The living world	
32.	A division is formed by combining several :-		42.		Which is the most important but generally not	
	(A) Orders	(B) Families			entification of the species-	
22	(C) Classes	(D) Tribes		(A) Interbreeding	(B) Morphology	
33.		e of botanical nomenclature		(C) Genetic material	(D) None	
	was first proposed in	•	43.	Number of obligator	y categories in taxonomy	
	(A) 1930 (C) 1012	(B) 1830 (D) 1812		are :		
24	(C) 1913 For declaration of a	(D) 1813		(A) 7	(B) 8	
34.	what characters are			(C) 9	(D) 5	
	(A) Floral character	-	44.	Herbarium is :-	Herbarium is :	
		racters of new species		(A) A garden where m	nedicinal plants are grown	
		haracter of new species		(B) Garden where herbaceous plants are grown		
	(D) Character of end	dosperm		(C) Dry garden		
35.	The standared size of	The standared size of herbarium sheets is :-		(D) Chemical to kill p	lants	
	(A) 11.5" × 16.5"	(B) 15.5" × 16.5"	45 .	The vegration	n of "Species plantarum" :-	
	(C) 18.5" × 10.5"	(D) 20.5" × 21.5"	чЭ.	(A) 1853 (B) 1		
36.	Which statement is t	rue :				
		not allowed in plants		(C) 1753 (D) 1	/ 00	
	· · · · · · · · · · · · · · · · · · ·	ot allowed in animals	46.	The biological concep	t of species is mainly based	
		nally allowed in animals and		on:-		
	some time allowed		(A) Morphological features		atures	
	(D) Tautonyms allow	wed only in bacteria	(B) Morphology and method of re		method of reproduction	
37.	Trinomial nomencl	ature of classification was	(C) Method of reproduction only		uction only	
	proposed by :			(D) Reproductive isolation		
	(A) Linneaus	(B) Huxleyand Stricklandt	47.	A duplicate of holoty	pe is called :-	
	(C) John–Ray	(D) Theophrastus		(A) Isotype	(B) Syntype	
38.	Most of the botanica	al names are drawn from the		(C) Neotype	(D) Paratype	
	following language :-		48. Term taxon was given by :		hv.	
	(A) German	(B) Greek	10.	(A) Adolf Mayer	(B) Linnaeus	
	(C) Latin	(D) Spanish		(C) Darwin	(D) Koch	
39.	Evolutionary classifi			(C) Dai will	(D) KOUI	
	(A)Artificial system (B) Natural system		49.	Which of the following	ig is a species :-	
	(C) Phylogenetic sys	stem (D) None of the above		(A) Tamarindus	(B) Indicus	
40.	Which of the follow	wing statements regarding		(C) Indica	(D) Tamarindus indicus	
т 0.	nomenclature is corr		50.	Tautonyms are valid r	names according to :-	
		ways begins with capital letter		(A) ICBN	(B) Species plantarum	
		name with small letter				
	(B) Scientific name should be printed in italics			(C) Genera plantarum		
		when typed or handwritten	51.	Practical significance	of taxonomy is :-	
	should be underli			(A) Classification		
	(D) All the above			(B) To understand div	rersity	
41.		ngement of taxa is called :-		(C) To understand eve	olution	
	(A) Key	(B) Taxonomy		(D) Identification of o	rganisms	
	(C) Geneology	(D) Hierarchy				
		· / ·				

- 52. Which name is invalid :-
 - (A) Name not published in species plantarum
 - (B) Name proposed prior to 1961
 - (C) Name which is not in latin
 - (D) Name for which holotype is not designated
- 53. Which system classifies a plant in more than one groups :-
 - (A) Practical classification
 - (B)Artificial classification
 - (C) Natural classification
 - (D) Phylogenetic classification
- 54. Author of book "Flora British Indica":-(A) Father Santapau
 - (B) J.D. Hooker
 - (C) William Rouxburgh
 - (D) G. Bentham

HISTORY OF TAXONOMY

- 55. Eichler divided plant kingdom in :-(A) Two divisions (B) Four divisions (C) Five divisions (D) Ten divisions
- 56. Embryophyta includes :-(A) Angiosperms only (B) Algae and fungi (C) Bryophyta & Pteridophyta (D) All plants except thallophyta
- 57. According to Tippo, BGA are included in :-(A) Chrysophyta (B) Pyrrophyta (C) Chlorophyta (D) Cyanophyta
- 58. Oswald Tippo placed slime molds in :-(A) Cyanophyta (B) Chlorophyta (C) Phaeophyta (D) Myxomycophyta
- 59. "Genera Plantarum" was written by :-(A) Engler and Prantal (B) Hutchinson (C) Bentham & Hooker (D) Bessey
- Angiosperms (dicotyledons) were distinguished 60. into archichlamydae and metachlamydae by :-(A) Candolle (B) Hutchinson (C) Engler and Prantl (D) None

		The living world			
61.	Chief merit of Bentham and Hooker's classification is that :-				
	(A) It is a system mostly based on evalutionary concepts				
	(B) It is a natural systems of classification of all groups of plants				
	(C) The description of the taxa are based on actual observation of the specimen				
	(D) It also considers	the phylogenetic aspects			
62.	 Bantham and Hooker classified dicots into :- (A) Polypetalae, gamopetalae and glumiflorae (B) Polypetalae, gamopetalae and monochlamydae (C) Achlamydae, diclamydeae and metachlamydae (D) Archichlamydae, sympetalae & apetalae 				
63.	Zoodiogama includes :- (A) Gymnosperms and pteridophyta (B) Dicots, monocots, gymnosperm (C) Bryophyta and pteridophyta (D) Only thallophyta				
64.	Four kingdom syst proposed by :- (A) Whittaker (C) Linnaeus	tem of classification was (B) Copeland (D) Oswald Tippo			
65.		cation porposed by Bentham			
	(A)Artificial	(B) Natural			
	(C) Phylogenetic	(D) Numerical			
66.	The classification of on :-	Linnaeus was mainly based			
	(A) Sepals	(B) Steam			
	(C) Petals	(D) Stamens			
67.	Kingdom monera co	omprises the :-			

(A) Plants of economic importance

(B) All the plants studied in botany

(B) Fungi

(D) All of these

(D) Plants of Thallophyta group

(C) Prokaryotic organisms

Embryophyta includes :-

(A)Algae

(C) Bryophyta

68.

13

<u>69.</u>	Whittaker is famous for :-		78.	In Whittaker's five kingdom classification,		
	(A) Two kingdom classification			eucaryotes were assigned to :-		
	(B) Four kingdom class	sification		(A)All the five kingdor	n	
	(C) Five kingdom class	sification		(B) Only four of the fiv	e kingdoms	
	(D) Distinguishing in E	Bacteria & blue gree Algae		(C) Only three kingdom	-	
70.	First phylogenetic syst was given by :- (A) Engler and Prantl (C) Ostwald Tippo	em of plant classification (B) Eichler (D) Bentham & Hooker	79.	 (D) Only one kingdom The book genera plantarum which contains the classification of seed plants was wrote by :- (A) Linnaeus (B) De jussieu (C) Bentham and Hooker (D) Eichler 		
71.		proposed by Linnaeus was (B) Natural (D) (A) and (C) both				
72.	 "Die Naturlichen Pflan (A) Eichler (B) Linnaeus (C) Engler and Prantl (D) Bentham and Hoo 	zen familien" wrote by :- ker	80.	"Theorie elementaire de of :- (A) Takhtajan (C) Eichler	e la botanique" is the book (B) De Candolle (D) Linnaeus	
73.	 (D) Bennam and Hooker Engler and Prantl created metachlamydae to include :- (A) Polypetalous dicots (B) Gamopetalous dicots (C) Gamopetalous monocots (D) Gymnosperm 		81.	Carolus Linnaeus classi basis of :- (A) Floral morphology (B) Overall morpholog (C) Type of sexual repu (D) Anatomical charac	y of plants roduction	
74.	In which of the follow classified in geneologie (A)Artificial (C)Phylogenetic	ving systems, plants are cal order :- (B) Natural (D) Nonphylogenetic	82.	Serology can be used t relationship of :- (A) Plants (C) Both the above	o know the phylogenetic (B)Animals (D) Dinosours	
75.	 Which book is the starting point for phylogenetic system :- (A) Origin of species (B) Die Naturlichen Pflanzen familien (C) The phylogenetic taxonomy of flowering plants (D) Historia plantarum 		83.	Which of the following Theophrastus :- (A) Enquiry in to plants (B) Causes of Plants (C) Historia plantarum	nquiry in to plants nuses of Plants storia plantarum	
76.	e	axonomists first employed scular tissue in taxonomy:- (B) Engler and Prantl (D) A.P. de Candolle	84.	(D) All the aboveOswald–Tippo includesub kingdom thallophy(A) 20 – divisions	ed how many divisions in ta :- (B) 10-divisions	
77.	The group "Pteropsid Tippo includes :- (A) Ferns (C) Angiosperms	a" proposed by Oswald (B) Gymnosperms (D) All the above	85.	 (C) 7 – divisions First plant classification (A) Linneaus (C) Theophrastus 	(D) 2 – divisions n was given by :– (B) John–Ray (D) Darwin	

86.	Division "Tracheophyta" includes :- (A) Bryophyta (B) All vascular plants (C) All non–vascular plants (D) All non–vascular and vascular plants		96.	According to Eichler cryptogamia includes :- (A) Gymnosperm and Angiosperm (B) Thallophyta and Gymnosperm (C) Thallophyta, Bryophyta and Pteridophyt (D) Only angiosperm		
87.	IWhich group of plant have embryo but not vascular tissue :(A) Cyanophyta(B) Tracheophyta(C) Bryophyta(D) ChlorophytaAccording to Benthum & Hooker total families of real flowering plants :(A) 202(B) 199(C) 34(D) 85		97.	According to Whittaker kingdom monera includes:- (A) Unicellular eukaryotes (B) Prokaryotes (C) Slime molds & protozoa (D) Multicellular & eukaryotes "Cellular plants" and "Vascular plants" are the		
88.			98.			
89.	Who gave importance (A) Willis (C) Hutchinson	of serology in taxonomy: (B) Karl Menz (D) Whittaker	99.	groups created by:- (A) Tippo (C) Takhtajan	(B) Eichler (D) De candolle d the "Red algae" belongs	
90.	The word Cryptogami (A) Theophrastus (C) Benthum & Hooke	(B) Linnaeus	<i>))</i> .	to :- (A) Monera (C) Plantae	(B) Protista(D) Animalia	
91.	Siphonogama includes :- (A) Bryophyta and thallophyta (B) Pteridophyta & Bryophyta (C) Gymnosperm & angiosperm (D) Thallophyta and gymnosperm		100.	 100. Linnaeus proposed an outline of plant classification in : (A) Genera Plantarum (B) Species Plantarum (C) Systema Naturae 		
92.	The phylogenetic relation can be established by the (A) Autoradiography (B) X-ray crystallography (C) Serology (D) Geneology	-	101.	 (D) Philosophia Botani Who classified the Emfertilization - (A) Eichler (C) Takhtajan 	ica bryophyta on the basis of (B) Tippo (D) Engler & Prantl forts to classify the living	
93.	According to four king the fungi belong to king (A) Protista (C) Mycota	dom system of Copeland, gdom :– (B) Mychota (D) Plantae	102.	 (A) Greek philosopher (B) Latin American scie (C) British herbalists 		
94.	According to Oswald placed under:- (A) Atracheata (C) Tracheophyta	Tippo Angiosperms are (B) Thallophyta (D) Spermatophyta	103.	(D) Indian Hakims	l by Bentham and Hooker	
95.	"Systema Naturae" book was written by:-(A) Angler and prantle (B) Darwin(C) Linnaeus (D) Oswald & Tippo			 (A) Enoryological characters (B) Floral characters (C) Vegetative characters (D) Phylogenetic characters 		

				i ne living world
104.	The separation of living beings into five kingdoms is based on :-		Phylogenetic relationship of plants can be established by:-	
	(A) Complexity of cell structure		(A) Plantserum	(B)Animal serum
	(B) Complexity of organism's body(C) Mode nutrition		(C) Chromatography	(D) Autoradiography
	(D) All the above		Fertilization by zoodiogamy occurs in :-	
105.	Which of the following organisms were never included in protista :		(A) Cryptogams	(B) Phanerogams
	(A) Bacteria (B) Red algae		(C) Only bryophyta	(D) Only pteridophyta
106.	 (C) Slimemolds (D) Mosses In which book, Linnaeus proposed the principles of nomenclature :- 		Swedish botanist who proposed the artificial system of classification on the basis of floral morphology was :-	
	(A) Species plantarum		(A) De-Jussieu	
	(B) Systema Naturae(C) Flora lapponica		(B) Bentham and Hoo	ker
	(D) Philosophia botanica		(C) John Ray	
107.	Which of the two groups include the similar plants	112.	(D) Carl von linne	
	(A) Siphonogama and spermatophyta		Kingdom of unicellular eucaryotes :-	
	(B) Siphonogama and zoodiogama		(A) Monera	(B) Protista
	(C) Metachlamydae and monochlamydae(D) Polypetalae and gamopetalae		(C) Fungi	(D) Plantae
108.	 (D) Forypeutite and gamopetate In Tippo's classification the group atracheata includes :- (A) Thallophyta (B) Bryophyta (C) All the vascular plants (D) All the non-vascular plants 		Who among the following proposed a classification in which plants with one stamen were placed under the class <i>Monandria</i> , with two in <i>Diandria</i> and with many stamens in polyandria:-	
			(A) Hutchinson	

(B) Bentham and Hooker

(C) Cronquist (D) Linnaeus

(D)All the non-vascular plants