BOTANY

(Final)

1.	The mo	most abundant natural polymer found in plant cell walls is?		
	(A) (C)	Pectin Chitin	(B) (D)	Cellulose Lignin
2.	Lichen	is a		
	(A) (C)	Symbiotic organism Obligate parasite	(B) (D)	Asymbitotic organism Pteridophyte
3.	A symb	piotic association between fungi a	nd the	roots of vascular plants is called as
	(A) (C)	•	(B) (D)	Mycelium Coleorhiza
4.	Study o	of fossil soils is		
	(A) (C)	Paleopedology Paleobotany	(B) (D)	Paleoecology Agronomy
5.	The stu	dy of fossilized pollen grains and	spore	s is termed as
	(A) (C)	Paleobotany Photography	(B) (D)	Palynology Videography
6.	Which	is the living fossil?		
	(A) (C)		(B) (D)	Sciadopitys verticillata Ginkgo biloba
7.	The cha	aracteristic feature of gymnospern	ns is	
	(A) (C)	naked seed covered seed	(B) (D)	without seed no photosynthesis
8.	Phycolo	ogy is the study of		
	(A) (C)	Fungi Bryotphytes	(B) (D)	Algae Angiosperms
9.	Which	one is produced by baker's yeast	with th	ne fermentation of sugar?
	(A) (C)	Methanol Ethanol	(B) (D)	Butanol Acetone

10.	Mushro	oom is		
	(A) (C)	an algae a parasite	(B) (D)	a fungus a bryophyte
11.	Chorop	hyta includes		
	(A) (B) (C) (D)	Photosynthetic eukaryotes Non photosynthetic eukaryotes Photosynthetic prokaryotes Non photosynthetic prokaryotes	3	
12.	Vessels	s are present in all of the following	g plant	ts except
	` /	Pinus Neem	(B) (D)	Rose Mango tree
13.	Which	of the following water conducting	elem	ent is considered as most advanced?
	(A) (C)		(B) (D)	•
14.	Which	of the following are the examples	of ph	loem fibres?
	(A) (C)		(B) (D)	•
15.	The wa	axy substance associated with the	wall c	of cork cells is
	(A) (C)	Cutin Hemicellulose	(B) (D)	Lignin Suberin
16.	A simp	le mechanical tissue devoid of lig	nin is	
		Parenchyma Collenchyma		Sclerenchyma Chlorenchyma
17.	Abnorn	nal secondary growth is found in		
	(A) (C)	Dracaena Helianthus	(B) (D)	Triticum Cucurbita
18.	Externa	al protective tissues of plants are		
	(A) (C)	Cork and cortex Epidermis and cork	(B) (D)	Cortex and epidermis Pericycle and cortex

	(A) (B) (C) (D)	all the tissues outside the vas only the cork	cular cam	
20.	Cork ce	ells are impermeable to water b	because of	f the presence of
	(A) (C)	Lignin Suberin	(B) (D)	Cutin Pectin
21.	Fusion	of male gamete with polar nuc	lei of eml	bryosac is known as
	` ′	Pollination Triple fusion		Embryogeny Double fertilization
22.	The ent	ry of pollen tube into the ovul	e through	micropyle is called
	` ′	Isogamy Porogamy	(B) (D)	~ ·
23.	Develo known	· · · · · · · · · · · · · · · · · · ·	etophyte	without the intervention of gamete is
		Apospory Apomixis	(B) (D)	Apogamy Aposporogamy
24.	The exi	ne of mature pollen grain is co	omposed o	chiefly of
	(A) (C)	Lipids Pectocellulose	` /	Cellulose Sporopollenin
25.	During	fertilization, the pollen tube d	ischarges	its contents in the
	(A) (C)	Central cell Microphyle	(B) (D)	Egg Synergid
26.	The Co	mmelinaceae family is commo	only know	n as the
	(A) (C)	Spiderwort family Grass family	(B) (D)	Aster family Lily family
27.	Binomi	als with identical genus name	and speci	fic epithet are called
	(A) (C)	Homonym Basionym	(B) (D)	Tautonym Synonym

28.	The newly collected specimen which is used as a substitute, when the original type material is missing in a herbarium, is designated as		
	(A) Lectotype (B) Holotype (C) Neotype (D) Isotype		
29.	Natural system of classification of plants differs from artificial system of classification in		
	 (A) taking into account only one vegetative character (B) taking into account only one floral character (C) taking into account all the similarities between plants (D) All of the above 		
30.	Which one of the following chemicals is a DNA intercalator?		
	(A) 5-Bromouracil (B) Ethyl methane sulfonate (C) Acridine orange (D) UV		
31.	Which one of the following neurotransmitters is secreted by the pre-ganglionic neurons of sympathetic nervous system?		
	(A) Epinephrine (B) Acetylcholine (C) Dopamine (D) Norepinephrine		
32.	Which of the following statements about evolution is true?		
	 (A) Evolution is the product of natural selection (B) Evolution is not goal-oriented (C) Evolution won't evolve Prokaryotes (D) Both (A) and (B) 		
33.	Predominant interactions between phospholipids that stabilize a biological membrane include		
	 (A) hydrogen bonds and covalent interactions (B) van der Waal and ionic interactions (C) hydrophobic interactions and hydrogen bonding (D) covalent and hydrophobic interactions 		
34.	Entry of enveloped viruses into its host cells is mediated by		
	 (A) only endocytosis (B) both endocytosis and phagocytosis (C) both endocytosis and membrane fusion (D) only pinocytosis 		

35.		of the following National parked areas in the world?	s has	the highest density of tigers among
	(A) (C)	Jim Corbett Keoladeo Ghana	(B) (D)	Kaziranga Manas
36.	Excess	oxygen consumed after a vigorou	s exer	cise is to
	` /	1 1	tic aci	
37.		of the following mutagens is min a gene product?	nost li	ikely to result in a single amino acid
	(A) (B) (C) (D)	X-rays Ethylmethane sulphonate (EMS)	
38.	Green r	revolution occurred during		
	(A) (C)	1960 1950	(B) (D)	1940 1930
39.	Selection	on of homozygous plant is termed	as	
	()	Pure line selection Clonal selection	(B) (D)	Mass selection Both (A) and (C)
40.	A plant	bearing both male and female flo	wers i	is said to be
	(A) (C)	Dioecious Polygamous	(B) (D)	Monoecious Asexual
41.	Wind p	ollination is also known as		
	(A) (C)	Anemophyly Zoophyly	(B) (D)	Entomophyly Hydrophyly
42.		petrified remains of ancient plant re called	s and	animals or impressions left by them in
	(A) (C)	Models Fossils	(B) (D)	Traces Images

43.	Adjustment of individuals to their environment by means of special structures or of function is termed as			
		Mutation Variation	(B) (D)	Heredity Adaptation
44.	A hybri	d is always		
		Heterozygous Often homozygous	(B) (D)	Homozygous Both (A) and (B)
45.	One of	the following is not a double men	nbranc	ous structure
	(A) (C)	Mitochondrion Chloroplast	(B) (D)	Vacuole Nucleus
46.	Mendel	formulated some laws which are	know	n as
		Laws of germplasm Laws of recapitulation		Laws of origin of species Laws of inheritance
47.	The alle	eles are		
	(A) (B) (C) (D)	multiple forms of genes	cific cl	haracter such as tallness or dwarfness
48.	An orga	anism with two identical alleles fo	r a gi	ven trait is
	(A) (C)	homozygous dominant	(B) (D)	segregating a hermaphrodite
49.	The resemblance of individuals to their progenitors is called			
	(A) (C)	Heredity Evolution	(B) (D)	Genetics Epigenetics
50.	Maxim	um biodiversity can be seen in		
	(A) (C)	Tropical rain forest Savanna	(B) (D)	Temperate forest Alpine forest
51.	The mo	est important adaptation of mangro	ove pl	ants is
	(A) (C)	Vivipary Thick Bark	(B) (D)	Thick cuticle Thick leaves

52.	Tendency of pollutants to become concentrated in successive trophic levels is known as			
	(A) (C)	Biomagnification Bioremediation	(B) (D)	Biorhythm Biopiracy
53.	More th	an half of the Earth's flora and far	una ar	re found in
	(A) (C)	Tundra Grasslands	(B) (D)	Tropical rain forests Chapparal
54.	Two bio	odiversity hot-spots in India		
	(A) (B) (C) (D)	Eastern Himalayas and Western Western Himalayas and Western Eastern Himalayas and Eastern C Western Himalayas and Eastern	Ghat Shats	S
55.	Eutroph	nication is		
	(A) (B) (C) (D)	an improved water quality status the result of accumulation of plan a process in the carbon cycle a water purification technique		
56.	The larg	gest reservoir of nitrogen in our pl	anet is	S
	(A) (C)	Ocean Biosphere	(B) (D)	Atmosphere Fossil fuels
57.	Father o	of medicine is		
	(A) (C)	Aristotle Hippocrates	(B) (D)	Dioscorides Galen
58.	Flower	bud of drug showing medicinal in	nporta	nce is
	(A) (C)	Saffron Fig	(B) (D)	Clove Caraway
59.	Vinca r	osea belongs to the family		
	(A) (C)	Rubiaceae Apocyanaceae	(B) (D)	Solanaceae Erythroxylaceae
60.	The imp	portant chemical constituent of rau	ıwolfi	a is
	(A) (C)	Reserpine Ajamalicine	(B) (D)	Resercinnamine Desperidine

61.	One of the following is the source of rubber			
	(A) (C)	Hevea brasilensis Cedrus depdara	(B) (D)	Tectona grandis Michelia chamaca
62.	Saffron	is produced from		
	(A) (C)	Roots of <i>Indigofera</i> Stamens of <i>Hibiscus</i>	(B) (D)	Petals of <i>Rosa</i> Style and Sigma of <i>Crocus</i>
63.	'Holy l	basil' is the synonym for the fo	llowing	drug producing herb
	(A) (C)	Alpinia officinarum Nardostachys jatamonum	` /	Allium sativum Ocium sanctum
64.	Cross p	ollination is essential in the fol	lowing t	ype of vegetables
	(A) (C)	Monoecious Gynoecious	(B) (D)	Dioecious Perigynous
65.	Matura	tion of anthers and stigma at the	e same ti	me refers to
	(A) (C)	Homogamy Cleistogamy	(B) (D)	Chasmogamy Dichogamy
66.	In tissu	e culture medium, the embroyi	ds forme	d from pollen grains is due to
	(A) (C)	Cellular totipotency Double fertilization	(B) (D)	Organogenesis Test tube culture
67.	7. Indian Institute of Horticulture Research (IIHR) is established at			
	(A) (C)	Bangalore Lucknow	(B) (D)	New Delhi Jodhpur
68.	Biostati	istics is also called as		
	(A) (C)	Biometry Biometeorology	(B) (D)	Bio-numerology Algebra
69.	The sta	ndard deviation is the square of	f	
	(A) (C)	standard error (SD) variance	(B) (D)	mode regression
70.	Interfe	rence RNA was discovered by		
	(A) (C)	Cohen and Boyer Yonath and Ramakrishnan	(B) (D)	Fire and Mello Holley and Khorana

71.	Which	Which one among the following plants is not a GMO?				
	(A) (C)	Bt cotton Bt Brinjal	(B) (D)	Golden rice Pomato		
72.	The firs	st transgenic plant was				
	(A) (C)	Pea Flax	(B) (D)	Tobacco Cotton		
73.		one among the following bacering research?	teria	has been generally used in genetic		
	` /	Bacillus Pseudomonas	(B) (D)			
74.	Which	one among the following is used a	s an a	unionic detergent in SDS-PAGE?		
	(A) (B) (C) (D)	Cetyl trimethylammonium brom Sodium chloride (NaCl) Ethylenediaminetetraacetic acid Sodium dodecyl sulphate (SDS)	`	,		
75.	Which	base in RNA is replaced by uracil	?			
	(A) (C)	Thymidine Cytosine	(B) (D)	Guanine Adenine		
76.	Which substra		es use	s ATP to add a phosphate group to the		
	(A) (C)	Isomerase Aldolase	(B) (D)	Kinase Enolase		
77.	Sucrose	e is composed of				
	(A) (C)	Fructose and maltose Fructose and galactose	(B) (D)	Glucose and galactose Fructose and glucose		
78.	Cell wi	thout cell wall is termed as				
	(A) (C)	Apoplast Symplast	(B) (D)	Protoplast Tonoplast		
79.	Plant a	nd animal cell possess				
	(A) (C)	Cell walls Central vacuoles	(B) (D)	Mitochondria Chloroplast		

80. Mycorrhizae are symbiotic associations between		en					
	(A) (C)	•	(B) (D)	•			
81.	Which	technique is used to introdu	ice genes int	o dicots?			
	(A) (C)	Ti plasmid infection Particle acceleration		Microinjection Electroporation			
82.	Which	one among the following a	uxins is a nat	turally occurring form in plants?			
	(C)	Naphthalenacetic acid (N 2,4-dichlorophenoxyacet Indole-3-acetic acid (IAA Picloram	ic acid (2,4-I	D)			
83.	Black r	ust of wheat is caused by					
	()	Puccina recondita P.striiformis	, ,	P.graminis Alternaria solani			
84.	Coenoc	ytic mycelium occurs in th	e members o	of			
	, ,	Ascomycetae Deuteromycetae	` ′	Basidiomycetae Phycomycetae			
85.	Which of the following species of <i>Agaricus</i> is poisonous?						
		A campestris A xanthodermus	(B) (D)	A bisporus A rodmani			
86.	The fen	nale reproductive structure	in many lich	ens is called as			
		Carpogonium Ascogonium	(B) (D)	Oogonium Ascomata			
87.	Bacteri	a in which flagella are four	nd all over the	e body wall are known as			
	(A) (C)	Gram positive Atrichous	(B) (D)	Gram negative Peritrichous			
88.	The gro	oup of plants referred as 'ar	nphibians' o	f plant kingdom is			
	(A) (C)	Bryophytes Liverworts	` /	Mosses Hornworts			

89.	Scientific name of red wood tree is			
	` ′	Cedrus Dalbergia	(B) (D)	
90.	Scientif	ic name of pigeon pea is		
	` ′	Lens culinaris Pisum arvense	(B) (D)	Cajanus cajan Pisum sativum
91.	The fun	ection of the root cap is		
	(A) (B) (C) (D)	storage of end products protection of root tip and contro	l of ge	eotropic movement
92.	In Boug	gainvillea large coloured structure	es are	
	(A) (C)	Bracts Petals	(B) (D)	
93.	The phe	enomenon of polyembryony was	first o	bserved in
	(A) (C)	Mangifera Citrus	(B) (D)	
94.	The firs	at and great plant taxonomist is		
	(A) (C)	Hooker Linnaeus	(B) (D)	•
95.	The Na	tional Botanical Research Institut	e (NB	BRI) is located at
	(A) (C)	Delhi Lucknow	(B) (D)	Dehradun Darjeeling
96.	The bot	anical name of cauliflower is		
	(A) (B) (C) (D)	Brassica oleracea var. botrytis Brassica oleracea var. capitata Brassica oleracea var. gongylo Brassica campestris		
97.	Which	one among the following trees yi	elds v	valuable timber?
	(A) (C)	Acacia arabica Mangifera indica	(B) (D)	O

98.	Which one among the following is the largest family of the plant kingdom?			
	(A) (C)	Compositae Gramineae	(B) (D)	•
99.	The Ind	ian rubber plant belongs to the fa	mily	
	(A) (C)	Euphorbiaceae Asclepiadaceae	(B) (D)	Moraceae Sapotaceae
100.	From w	hich part of Cinchona, quinine is	extra	cted?
	(A) (C)		(B) (D)	Seeds Fruits
101.	Which o	one among the following crops of	ecupie	es higher cultivation acreage in India?
	(A) (C)	Jowar Bajra	(B) (D)	Wheat Rice
102.	The cha	racteristic smell in garlic is due t	o	
	(A) (C)	an alkaloid diallyl disulphide	(B) (D)	•
103.	Fenny is	s distilled from		
	(A) (C)	v	(B) (D)	Juniperus communis Ancardium occidentale
104.	Cilia are	e produced by		
	(A) (C)	Centrioles Dictyosomes	(B) (D)	Peroxisomes Golgi body
105.	Auxins	are		
	(A) (C)	Phytohormones Porphyrins	(B) (D)	
106.	Thigmo	tropism is the response of plants	to	
		Gravity Light	(B) (D)	Water Touch
107.	The term	m synecology refers to the study	of	
		Plant community Environment	(B)	Individual organism Plant-animal interactions

108.	Building blocks of the nucleic acids are						
	(A) (C)	Amino acids Nucleotides	(B) (D)	1			
109.	Chromo	osome of prokaryotes is compos	ed of				
	(A) (C)	DNA RNA	(B) (D)	Protein DNA, RNA and proteins			
110.	The nucleolus is composed of						
	(B)	DNA, RNA and protein DNA and RNA only DNA and protein only Nucleic acids, proteins and pho	ospholip	oids			
111.	Which one among the following plants is a millet?						
	(A) (C)		(B) (D)	•			
112.	Angiosperms are						
	(A) (C)	Open seeded plants Seedless plants	(B) (D)	Closed seeded plants Aquatic plants			
113.	When the calyx and corolla are combined, it is called						
	(A) (C)	Epicalyx Bracteole	` ′	Leaf sheath Perianth			
114.	Botanic	eal name of wheat is					
		Triticum Bambusa		Oryza Ricinus			
115.	Radish is a						
	(A) (C)	Bulb Tuber	(B) (D)	Modified root Stem			
116.	Solanum tuberosum is						
	(A) (C)	Tomato Banana	(B) (D)	Potato Mango			

117.	The collection of dried plant specimens is called						
	(A) (C)	Vivarium Terrarium	(B) (D)	Aquarium Herbarium			
118.	The sn	smallest gymnosperm is a species of					
		Ephedra Cycas	(B) (D)	Zamia Gnetum			
119.	Eugen	ia caryophyllus is the botanical n	ame o	f			
	(A) (C)	Clove Coriander	(B) (D)	Eucalyptus Cardamom			
120.	Krebs	cycle occurs in					
	(A) (C)	Cytoplasm Mitochondria	(B) (D)				
121.	Agar i	s extracted from					
	(A) (C)	Blue-green algae Green algae	(B) (D)	Brown algae Red algae			
122.	Dature	a belongs to the family					
	(A) (C)	Compositae Liliaceae	(B) (D)	Cruciferae Solanaceae			
123.	Acid r	ain is due to					
	(A) (C)	Sulphur dioxide pollution Pesticide pollution	` /	Carbon monoxide pollution Dust particles			
124.	Viruses contain						
	(A) (C)	Only DNA Either DNA or RNA	(B) (D)	Only RNA Both DNA and RNA			
125.	Where	is the Sugarcane Breeding Institu	ite loc	ated?			
	(A) (C)	Lucknow Coimbatore	(B) (D)	Mysore Ludhiana			
126.	The dr	rug 'Belladonna' is obtained from					
	(A) (C)	Atropa Solanum	(B) (D)	Rawolfia Capsicum			

127.	Pine an	d fir are abundant in		
	(A) (C)	Tropical forests Temperate forests	` /	Coniferous forests Polar forests
128.	Air poll	lution effects on plants are mostly	found	lon
	(A) (C)	Leaves Stems	(B) (D)	Flowers Roots
129.		er pollution increases in a stream, ing manner	the va	lues of BOD and COD change in the
	(B)	BOD decreases and COD increase BOD increases and COD decrease Both decrease Both increase		
130.	Which	part of the coconut produces coir	?	
	(A) (C)	Seed coat Mesocarp		Pericarp Epicarp
131.	A dihybrid ratio according to Mendelian genetics is			
	(A) (C)	1:1:1:1 9:3:3:1	(B) (D)	
132.	Cotton	fibres are made up of		
	(A) (C)	Cellulose Lignin	(B) (D)	Starch Protein
133.	The en	nbryo in sunflower has		
	(A) (C)	No cotyledon Two cotyledons	(B) (D)	One cotyledon Many cotyledons
134.	When a termed		l with	homozygous dominant plants, it is
	(A) (C)	Simple cross Backcross	(B) (D)	Test cross Special cross
135.	The m	ain function of lysosomes is		
	(A) (C)	Digestion Translation	(B) (D)	Replication Translocation

136.	Mutations are caused due to exposure to						
		Radioactive mutagens Radiation mutagens	(B) (D)	Chemical mutagens Carcinogens			
137.	Algae found growing attached to soil substratum are called as						
		Epilithic Epipelic	` /	benthos Sciophytic			
138.	Tuberculosis is caused due to the infection by						
	` /	Clostridium Salmonella	(B) (D)	Mycobacterium Treponema			
139.	Pneumatophores are usually present in						
	` /	Mangrove plants Hydrophytes		Xerophytes Epiphytes			
140.	Storage leaves are founds in						
		Trapa Triticum	` /	Allium Maize			
141.	The fruit of grasses is usually a						
		Capsule Nut	(B) (D)	Achene Caryopsis			
142.	Which one among the following is a prokaryote?						
		Spirogyra Escherichia		Rhizopus Amoeba			
143.	Mitochondria are absent in						
	(A) (C)	Yeast Bacteria	(B) (D)	Fungi Green algae			
144.	Wilting occurs in plants when						
	(A) (C)	•	(B) (D)	Phloem is blocked Pith is removed			
145.	Which one among the following is an insectivorous plant?						
	(A) (C)	Cuscuta Drosera	(B) (D)	Orobranche Rafflesia			

146.	The f	lowering	responses of	f plants can	be changed	l bv
1	1110 1	10 11 011115	TODPOILDED C.	pianto car	i ce change	,

- (A) Induced mutations
- (B) Photoperiodic treatment
- (C) Injection of enzymes
- (D) Somatic hybridisation

147. RNA is absent in

- (A) Plasma membrane
- (B) Cytoplasm

(C) Chromosome

(D) Ribosome

148. Genes control

- (A) Heredity but not protein synthesis
- (B) Protein synthesis but not heredity
- (C) Protein synthesis and heredity
- (D) Biochemical reactions of enzyme

149. Mycorrhiza is

- (A) a fungus parasitizing root system of higher plants
- (B) an association of rhizobium with the roots of leguminous plants
- (C) a symbiotic association of plant leaves and certain fungi
- (D) an association of algae and fungi

150. Crossing over involves

- (A) Deletion of chromosomes
- (B) Addition of chromosomes
- (C) Exchange of genetic materials
- (D) Duplication of chromosomes
