Botany (1068)

1.	Which of the following is not an extinct m		s?
	A) Lepidodendron B C) Phylloglossum) Sphenophyllum D) Calamites	
	C T Tryllogiossum	b) calalities	
2.	Which of the following terms is used for the	_	
	A) Biomass	B) Primary prod	uctivity
	C) Ecological yield D) Standing crop	
3.	Which of the following is commonly know		
	A) Tmesipteris elongate C) Psilotum nudum D	B) Pteris pedatu 1) Hymenophyllum dent	
	C) PSHOLUIN NUUUIN	п тутепорпунит <i>ае</i> тс	iculatum
4.	Spores of the fern plants germinate to for		
	A) Embryo B) Prothallus C) Protonema	D) Zygospore
5.	Category III of IUCN Protected Area pertai	ins to the	
	A) Natural Monument	B) National Park	
	C) Wilderness Area D) Strict Nature Reserve	
6.	Which of the following best describes the	concept of a metapop	ulation?
	A) A population in an urban area		
	B) A population of different species I		raphic area at the same time
	C) A population that has become spaD) A network of distinct and non-interm		
7.	Which of the following terms is used		showing reversible phenotypic
	variations induced upon environmental gr A) EcotypeB) Ecophene C		D) Ecotone
	,,, zeotypeb, zeopnene	, 20010 PC	D) Leatene
8.	Leaves are involved in the vegetative repr	oduction in which of th	ne following plants?
	A) Solanum nigrum	B) Brassica cam	pestris
	C) Bryophyllum daigremontianum D) Opuntia articulata	
_			
9.	The only natural habitat of the endangere	ed Manipur Brow-Antle	red deer is

	A) Keibul Lamjao National ParkC) Great Himalayan National Park		B) Keoladeo National Park D) Kudremukh National Park				
10.	Golden rice is a genetic A) Sunflower	ally modified va B) Lotus	riety of r C) Daff		ns a gene from D) Marigold		
	Recombinant DNA was A) 1974 Caryopsis is the fruit in A) Asteraceae	B) 1973	C) 1972		1 D) Apiaceae		
13.	Which of the following A) Avocado	is an example of B) Buttercup	f drupe?	C) Olive	D) Pear		
14.	Which of the following A) Forests and Susta C) Forests and Wate	ainable Cities	of the International Day of Forests 2018? B) Forests and Energy D) Forests Climate Change				
15.	Chemically, ephedrine A) Saponin	is a/an B) Polyphenol		C) Alkaloid	D) Diterpene		
16.	Rattans are the type of A) Climbing Pines C) Climbing Ferns			B) Climbing Pa D) Woody Ferr			
17.	 7. Which of the following is true about bird-pollinated plants? A) Plants tend to have red flowers and are rarely scented B) Plants tend to have red flowers and are always scented C) Plants tend to have blue flowers and are always scented D) Plants tend to have blue flowers and are rarely scented 						
18.	The change in allele fre	quency from on	e genera	ation to the nex	t is known as		

19.	The term <i>gene</i> was coined by A) C.H. Morgan C) William Bateson	B) Hugo de Vries D) Wilhelm Johannsen	1
20.	Which of the following terms is used fo A) Frustule C) Extra cellular matrix	or the hard and porous cell wall of B) Lorica D) Coccolith	diatoms?
21.	India's seed vault for protecting the see A) Kaza (Lahaul and Spiti) C) Chang La (Ladakh)		t
22.	Bull Kelp is the common name of A) Laminaria hyperborean C) Ascophyllum nodosum	B) Durvillaea antarctica	
23.	Which of the following is not a C4 plant $A)$ Maize $B)$ Barley		D) Sorghum
24.	Drooping junipers are the characteristic A) Littoral and Swamp forests C) Alpine forests	c trees of B) Moist tropical forests D) Sub-tropical forests	
25.	Which of the following members of oor A) Pythium oligandrum C) Aphanomyces euteiches	mycetes is used as a biocontrol ag B) Saprolegnia mixta D) Plasmopara viticola	ent?
26.	Which of the following green algae is re A) <i>Chlorella vulgaris</i> C) <i>Volvox aureus</i>	esponsible for causing the phenom B) <i>Chlamydomonas nival</i> D) <i>Chara elegans</i>	

B) Genetic drift C) Gene transfer

D) Gene migration

A) Gene flow

	A) Bentham and Hooker		B) Engler and Prantl				
	C) Takhtajan		D) Hutchinson				
28. W	hich of the followinք	g is an example of leafy	liverwort?				
	A) Porella	B) <i>Riccia</i>	C) Nothoceros	D) Marchantia			
30 W	high of the following	, contains inverted cor	tical vaccular bundles	2			
29. VV	A) Sunflower	g contains inverted cor B) <i>Nyctanthes</i>	C) Boerhavia	r D) Bougainvillea			
30. Re	eplum is found in the A) Mustard	e ovary of B) Sunflower	C) Petunia	D) Pea			
	11) Wastara	b) samower	c) i ctama	5,1 ca			
31. W	-	g species of <i>Amanita</i> is	<u>-</u>	•			
	A) Amanita bispoC) Amanita phallo		B) Amanita ocrea D) Amanita verna				
	cj/imamea phano	ides	Dyramamea verna				
22 \//	hich of the following	t dispasses of notato is	accaciated with the fa	mines that occurred in Europe in 1840s?			
32. VV	A) Potato Scab	g diseases of potato is a	B) Late Blight of P				
	C) Early Blight of I	Potato	D) Brown Rot of P				
33. W	Thich of the following	ing viroids was the fi	rst to be identified?				
	A) Avocado Sun I		B) Eggplant Laten				
	C) Potato Spindle	Tuber Viroid	D) Peach Latent N	Mosaic Viroid			
34. W		ving is known as the fa					
	A) de Candolle	B) Linnaeus	C) Mayr D) Theophrastus			
35. W	hich of the following	g is the botanical name	of Aiwain?				
	A) Cuminum cym		B) Ferula commur	nis			
	C) Foeniculum vul	'gare	D) Trachyspermur	n ammi			
36. Ar	mber is a type of						
	A) Fossilized tree	resin	B) Inflorescence	_			
	C) Fruit		D) Woody climber				

27. *Die natürlichen Pflanzenfamilien* is related to......

	A)	Dried leaves	B) Dried seeds	C) Floral buds	D) Young fruits
38.	known A)		١	fying a different amino B) Nonsense r D) Null mutati	
39.		n reaction is a sp RNA	pecific test to che B) Proteins	ck the presence of C) Fats	D) DNA
40.		of the following Pribnow box	refers to the rec B) TATA box	ognition site in promot C) CRP box	er region of a <i>lac</i> operon? D) Cga box
41.		of the following Tryptophan	amino acids is ar B) Glycine	romatic in nature? C) Glutamic ad	id D) Alanine
42.	Α)	photophosphory Both PS I and P PS II only		B) Either PS I o D) PS I only	or PS II
43.	A) B) C)	Non-directiona Reversible only Both reversible	l only		
44.			is the symbol for B) I_x	r net reproductive rate C) λ	P D) m _x
45.	A)	error in statistica Standard error False negative		ting is also known as B) False neutr D) False positi	al
46.	A)	of the following Digital Object I Data Operating	ndex	f DOI – a serial code fo B) Digital Obje D) Data object Identifi	

is

37. Which of the following parts of clove is used as flavouring material?

	A) Pinus	B) Picea	C) Abies	D) Ginkgo)	
48.	Fern <i>Acrostichum a</i> A) Salt marshes		В) Н	leathlands		
	C) Open exposed a	reas	D) Xerophyt	cic conditions		
49.	Long fibre of cottor	ı seed is known as				
	A) Coir	B) Fuzz	C) Flax	D) Lint		
50.	Medicinally importa	ant Ginseng, a slow	growing pere	nnial plant be	longs to which of the foll	owing
	genera?					
	A) Panicum	B) Pandanus	C) <i>F</i>	Panax	D) Papaver	
			X-X-X			

47. Sulphur shower relates to......

Panjab University, Chandigarh M.Phil./PHD - 2018 ANSWERS / KEY

		Subject:	Botany	/(Ph.D. &	M.Phil.)				
1	2	3	4	5	6	7	8	9	10
С	С	С	В	Α	С	В	С	Α	С
11	12	13	14	15	16	17	18	19	20
В	С	С	Α	С	В	Α	В	D	Α
21	22	23	24	25	26	27	28	29	30
С	Χ	В	С	Α	В	В	Α	В	Α
31	32	33	34	35	36	37	38	39	40
С	В	С	В	D	Α	С	В	D	Α
41	42	43	44	45	46	47	48	49	50
Α	D	С	Α	D	В	Α	Α	D	С

Note: An 'X' (if any) in the key indicates that either the question is ambiguous or it has printing mistake. All candidates will be given credit for this question