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Maximum: 100 marks

1. 'Red drop' phenome	non was discovered by :	Time: 1 hour and 15 minutes
(A) Hatch	was discovered by :	
(0)		(B) Benson
(C) Calvin		(D) Emerson
2. It is an alternate panimal and plant cel	oathway of reactions thro	ough which glucose is completely oxidized in
(A) Glycollate		
(C) Crassulac	ean acid pathway	(B) Hexose monophosphate shunt (D) EMP pathway
3. Non-protein part of the	he enzyme is called :	
(A) Apoenzym		(B) Holoenzyme
(C) Prosthetic	group	(D) Exoenzyme
4. Plant growth can be n	neasured with:	
(A) Potometer		(B) Altimeter
(C) Spectropho	otometer	(D) Auxanometer
/ If germination of seed	is affected by light resulti	ng in dormancy, such seeds are called :
(A) Photonastic		(B) Phototropic
(C) Nyctinastic		(D) Photoblastic
6. The system of binomia	l nomenclature was introd	luced by :
(A) Aristotle		(B) Theophrastus
(C) Linnaeaus	1	(D) Roxburgh
7. Which of the following	series is not included in po	olypetalae?
(A) Inferae		(B) Thalamiflorae
(C) Disciflorae		(D) Calyciflorae
C	Polype la la e	[P.T.O.]

8.	Papilion	aceous corolla is found i	n:	V Iinoggo
	(A)		(L	Leguminosae
	(C)	Palmae	(I)) Umbelliferae
9	Apocarpo	ous gynoecium is presen	t in:	
9		Annona	(B) Hibiscus
	(C)	Phaseolus	(D	
10.	A dry del	niscent fruit developed f	rom a monocarpella	ry superior ovary :
0	(A)	Caryopsis &	(B) Legume
	(C)	Capsule	(D	Legume Achene
11,	The source	e plant of cotton is:		
	(A)	Gossipium arboreum	(B) Musa sapiendum
	(C)	Corchorus capsularis	(D) Agave Americana
12.	One of the	e following is not a cerea	al:	
	(A)	Maize	(B	Wheat Per
	(C)	Paddy /	(D	Ragi w
13.	Identify th	ne medicinal plant amor	ng the following :	
	(A)	Manihot	(B)	Oryza
	(C)	Anthurium	(D)	Eclipta
14.	Eletaria c	ardamomum belongs to		
	(A)	Cereals	(B)	Spices
	(C)	Pulses	(D)	
15.	Identify th	ne tuber crop from the fo	llowing.	
	(A)	Musa		P. 1
	(C)	Sida	(B)	Boerhaavia
16.	Protonlass	mio mana	(D)	Manihot
	(A)	mic movement is spoken	of as:	
	(C)	Jerking	(B)	Translocation
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13	7. Plastids	acting as starch storing bodies are cal	lled:	
**	(A.		(D) Amyloplasts
	(C)	Chloroplasts	(D) Chromoplasts
1000	TC 3	tion of lignin transversely in the form	of rod	s or rungs of a ladder, it is known as:
18		Annular - as rings	(B)	Reticular _ an network
	(C)	Scalariform _ as transverse nets	(D)	Pitted - except in the region of extensive thickening.
19.	Needle li	ke crystals of calcium oxalate in plant	tissue	es are called :
		Cystolith	(B)	
	(C)	Inulin	(D)	Sphaerocrystals
0.	Plant tiss spaces:	sue in which cells are much thicke	ned a	t the corners against the intercellular
	(A)	Parenchyma	(B)	Collenchyma
	(C)	Sclerenchyma	(D)	Aerenchyma
21.	The type of	of vascular bundle in which phloem is	surro	unded by xylem is known as :
	(A)	Radial		Amphivasal
	(C)	Amphicribral	(D)	Collateral
22./	A closed v	ascular bundle is one in which :		
		Cambium is absent	(B)	Cambium is present
	(C)	Xylem is present	(D)	Phloem is absent
3.	Collateral	closed bundles are characteristic of:		
	(A)	Monocot stem	(B)	Direct
	(C)	Monocot root	(D)	Dicot root Dicot stem
24,	The second	dary meristem		
	(A)	dary meristem arising in the cortex is Phelloderm	knowr	n as:
		Phellogen	(B)	Periderm
			(D)	Phellum
25,	Pure line t	heory was proposed by :		
	(A)	Kolereuter	(D)	4
C	(C)	Johannsen /	(B)	Williams
		5	(D)	Fairchild

(Sile)

26. Pioneering Indian plant breeder in when	at crop is :
(A) T.S. Venkatraman	(B) M.S. Swaminathan
(C) K.C. Mehta	(D) B.P. Singh
27. Indian Agricultural Research Institute	is located in :
(A) Lucknow	(B) Coimbatore
(C) Kasargod	(D) New Delhi
28. The excess vigour shown by the hybrid or	ver their parents is called:
(A) Dominance	(B) Pleiotropism
(C) Heterosis	(D) Epistasis
9. The character that facilitate self pollinati	on is :
(A) Herkogamy	(B) Dichogamy
(C) Cleistogamy	(D) Heterostyly
30. The simplest amino acid is:	
(A) Tryptophan	(B) Glycine
(C) Aspartic acid	(D) Valine
31. Fungus used in baking and brewing indust	try:
(A) Penicillium	(B) Saccharomyces
(C) Streptomyces	(D) Agaricus
2. Storage product in a fungal cell :	
(A) Glucose	(D) (G)
(C) Fructose	(B) Glycogen (D) Sucrose
3. Fungi which live only on dead organic matt	
(A) Facultative parasite	er:
(C) Obligate saprophyte	(B) Obligate parasite
A photosynthetic bacterium :	(D) Facultative saprophyte
(A) Rhodospirillum	
(C) Rhizobium	(B) Azotobactor
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Rapid rotting of the stems of the seedlings a	t the ground level :
(A) Canker	(B) Pitting
(C) Rotting	(D) Damping off
44. Bunchy top of Banana is a:	
(A) Viral disease	(B) Bacterial disease
(C) Fungal disease	(D) Deficiency disease
45. Causal organism of Blight of rice:	
(A) Entyloma oryzae	(B) Sclerospora oryzae
(C) Xanthomonas oryzae	(D) Ephelis oryzae
46. DPD of a cell with OP = 25 atm. and TP = 15	atm. is:
(A) 10 atm.	(B) 40 atm.
(C) -10 atm.	(D) -40 atm.
47. Loss of water in liquid form from plants is:	
(A) Transpiration	(B) Evaporation
(C) Bleeding	(D) Guttation
48. Xylem elements are related to:	
(A) Ascent of sap	(B) Translocation of food
(C) Transmission of impulses	(D) Transport of gases
49. Which of the following is not a micronutrient?	
(A) Zinc	(P) G 1
(C) Molybdenum	(B) Calcium
50. Maximum photosymth	(D) Boron
50. Maximum photosynthesis takes place in : (A) Green light	
aroon ngnt	(B) Blue light
(C) Red light	(D) Violet

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51		nioxus velar tentacles are found:) at the tip of oral hood) on velum directed outwards	(B) (D)	ventral side of oral hood on velum directed inwards
52	. Bidder's	canal exists in frog:		
51	(A)	It is a part of kidney	(B)	It is a part of vas-deferens
	(C)	It is a part of vas-deferentia	(D)	None of the above
53.	'Pigeon n	nilk' is formed from :		
	(A)	Glands of alimentary canal	(B)	Epithelial lining of crop
	(C)	Special glands of buccal cavity	(D)	Glands of stomach
-4.	Deficienc	y of retinol causes :		*
	(A)	Osteomalacia	(B)	Necrosis
	(C)	Nyctalopia	(D)	Encephalomalacia
55.	Pyridoxal	phosphate is formed from :		
	(A)	Vit. B ₂	(B)	Vit. B ₃
	(C)	Vit. B ₅	(D)	Vit. B ₆
56.	Perniceou	s anaemia is caused by the deficienc	ey of:	
	(A)	Vit. B ₁	(B)	Vit. A
	(C)~	Vit. B ₁₂	(D)	Vit. B ₄
7.	Hypoxia:			
	(A)	Total lack of oxygen		
	(B) A condition when the body gets insufficient amount of O ₂			amount of O
	(C)	Inability of Hb to form HbO2		
	(D)	Inability of HbO_2 to dissociate into	Hb and O	2
58.	Mountain	ountain sickness is characterized by :		
	(A)	Increased pressure in blood		
	(B)	PO ₂ at high altitudes is loss and the		
	(C)	PO ₂ at high altitudes is less and the Loss of consciousness	e blood do	es not get enough O ₂
C	(D)	PO ₂ at high altitudes is high and th	e blood ce	ells are destroyed
				acsir oyed