140/2006

Maximu	m: 100 marks
1. 'Red drop' phenomenon was discovered by	Time: 1 hour and 15 minut
(A) Hatch	
(C) Calvin	2013011
It is an alternate pathway of reactions animal and plant cells:	(D) Emerson through which glucose is completely oxidized
(A) Glycollate	
(C) Crassulacean acid pathway	(B) Hexose monophosphate shunt (D) EMP pathway
3. Non-protein part of the enzyme is called:	
(A) Apoenzyme	(B) Holoenzyme
(C) Prosthetic group	(D) Exoenzyme
4. Plant growth can be measured with:	
(A) Potometer	(B) Altimeter
(C) Spectrophotometer	(D) Auxanometer
If germination of seed is affected by light re-	sulting in dormancy, such seeds are called
(A) Photonastic	(B) Phototropic
(C) Nyctinastic	(D) Photoblastic
3. The system of binomial nomenclature was in	ntroduced by :
(A) Aristotle	(B) Theophrastus
(C) Linnaeaus	(D) Roxburgh
Which of the following series is not included	in polypetalae?
(A) Inferae	(B) Thalamiflorae
(C) Disciflorae	(D) Calyciflorae
3	[P.T.O.]
Polupe la	[1,1,0,]

(onaceous corolla is found in : A) Lamiaceae C) Palmae	(B) Leguminosae (D) Umbelliferae
(1	rpous gynoecium is present in : A) / Annona C) Phaseolus	(B) Hibiscus (D) Coriandrum
(A		(B) Legume (D) Achene
	Gossipium arboreum	(B) Musa sapiendum(D) Agave Americana
12. One of t (A		(B) Wheat (D) Ragi
13. Identify (A		ing : (B) Oryza (D) Eclipta
14. Eletaria (A (C		(B) Spices (D) Vegetable
(A (C) Sida	(B) Boerhaavia (D) Manihot
16. Protopla (A (C 140/2006	-5 010513	(B) Translocation (D) Migration

17. Plastids	s acting as starch storing bodies are ca	lled:	
(A		(D) Amyloplasts
(C) Chloroplasts	(D) Chromoplasts
***	tion of lignin transversely in the form	of rod	s or rungs of a ladder, it is known as:
	Annular — as mags	(B)	Reticular _ as network
(A)	Scalariform _ as transverse nets		Pitted - except in the region of extensive thickening.
19. Needle li	ike crystals of calcium oxalate in plant		
(A)	2 - 101	(B)	
(C)	Inulin	(D)	Sphaerocrystals
0. Plant tis 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 vascular bundle in which phloem is	surro	unded by xylem is known as :
(A)	Radial	(B)	Amphivasal
(C)	Amphicribral	(D)	Collateral
2. A closed v	ascular bundle is one in which:		
(A)	Cambium is absent	(B)	Cambium is present
(C)	Xylem is present	(D)	Phloem is absent
3. Collateral	closed bundles are characteristic of:		
	Monocot stem	(B)	D:
(C)	Monocot root		Dicot root
4 The seesa		(D)	Dicot stem
The second	dary meristem arising in the cortex is	knowr	n as :
(A)	rhelloderm	(B)	Periderm
100	Phellogen	(D)	Phellum
5. Pure line t	theory was proposed by :		
(A)	Kolereuter		
(C)	Johannsen /	(B)	Williams
	5	(D)	Fairchild
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26. Pioneering Indian plant breeder i	n wheat crop is :
(A) T.S. Venkatraman	(B) M.S. Swaminathan
(C) K.C. Mehta	(D) B.P. Singh
27. Indian Agricultural Research Inst	itute is located in :
(A) Lucknow	(B) Coimbatore
(C) Kasargod	(D) New Delhi
28. The excess vigour shown by the hy	brid over their parents is called:
(A) Dominance	(B) Pleiotropism
(C) Heterosis	(D) Epistasis
9. The character that facilitate self po	ollination is :
(A) Herkogamy	(B) Dichogamy
(C) Cleistogamy	(D) Heterostyly
30. The simplest amino acid is:	
(A) Tryptophan	(B) Glycine
(C) Aspartic acid	(D) Valine
 Fungus used in baking and brewing 	industry:
(A) Penicillium	(B) Saccharomyces
(C) Streptomyces	(D) Agaricus
2. Storage product in a fungal cell :	
(A) Glucose	(D) (C)
(C) Fructose	(B) Glycogen
3. Fungi which live only on dead organi	(D) Sucrose
(A) Facultative parasite	c matter :
C) Obligate saprophyte	(B) Obligate parasite
	(D) Facultative saprophyte
A photosynthetic bacterium :	
(A) Rhodospirillum	(B) Azotobactor
(C) Rhizobium	- Totobactor
	(D) Clostridium

43. Rapid rotting of the stems of the seedlings	at 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 = 18	5 atm. is:
(A) 10 atm.	(B) 40 atm.
(C) -10 atm.	(D) -40 atm.
17. Loss of water in liquid form from plants is:	
(A) Transpiration	(B) Evaporation
(C) Bleeding	(D) Guttation
8. Xylem elements are related to:	
(A) Ascent of sap	(B) Translocation of food
(C) Transmission of impulses	(D) Transport of gases
9. Which of the following is not a micronutrient?	
(A) Zinc	
(C) Molybdenum	(B) Calcium
Maximum photosynthesis takes place in :	(D) Boron
(A) Green light	
(C) Red light	(B) Blue light
10/2006	(D) Violet
-0/2000	

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51	. In ampl	1 1: tad outwords	(B) (D)	ventral side of oral hood on velum directed inwards
52.	Bidder's (A) (C)	0 1 6	(B) (D)	It is a part of vas-deferens 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.	Demidoval	phosphate is formed from :		
00.	(A)	Vit. B ₂	(B)	V'A D
	(C)	Vit. B ₅		Vit. B ₃
	(0)	VIC. D5	(D)	Vit. B ₆
56.	Perniceou	s anaemia is caused by the deficienc	y of:	
	(A)	Vit. B ₁	(B)	Vit. A
	(C)~	Vit. B ₁₂	(D)	Vit. B ₄
7.	Hypoxia:			
	(A)	Total lack of oxygen		
	(B)		cc ·	
	(C)	A condition when the body gets insufficient amount of O ₂ Inability of Hb to form HbO ₂		
	(D)	Inability of HbO ₂ to dissociate into	TTI	
58.	Mountain		Hb and O	2
	(A)	sickness is characterized by :		
		Increased pressure in blood		
	(C)	PO ₂ at high altitudes is less and the Loss of consciousness	e blood do	es not get enough O2
C	,	PO2 at high altitudes is high and the	e blood ce	lls are destroyed