

BRAINWARE UNIVERSITY

Term End Examination 2021 - 22 Programme – Bachelor of Science (Honours) in Agriculture Course Name – Fundamentals of Crop Physiology Course Code - CC-BAG274(T) (Semester II)

Time allotted: 1 Hrs.5 Min. Full Marks: 50 [The figure in the margin indicates full marks.] Group-A (Multiple Choice Type Question) $1 \times 50 = 50$ Choose the correct alternative from the following: (1) Movement of solute particle from a higher concentration to its lower concentration area till the equilibrium is achieved is known asa) Plasmolysis b) Transpiration c) Osmosis d) Diffusion (2) The natural occurring hormone in higher plant is x001f x001f x001f x001f x001f a) IAA b) IBA c) NAA d) IBA and NAA (3) An essential growth substance required in tissue culture and delay the chlorophyll loss a) GA b) Kinetin d) Auxin c) Cytokinin (4) Stress hormone is a) GA b) IAA c) ABA d) NAA (5) Which Metabolic Pathway Produces Carbohydrate? a) Glycolysis b) Krebs cycle c) Cyclic electron pathway d) Calvin cycle (6) What is the End Product of the Calvin Cycle? a) PGA b) ADP+NADP

(7) have no Role in Photosynthesis.

d) PGAL

c) RuBP

a) Anthocyanin	b) Xanthophyll
c) Phycoerythrin	d) Phycocyanin
(8) What is the Reason Behind Cell Elongation in I	Internodal Regions of Plants?
a) Indole acetic acid	b) Cytokinins
c) Gibberellins	d) Ethylene
(9) Which of the Following is Known as a Hatch-sl	lack Pathway?
a) C2.	b) C3.
c) C4.	d) C5.
(10) Among the Following, Which is a C4 Plant?	
a) Sugarcane	b) Soybean
c) Corn	d) All of these
(11) Among the Following, Which is a CAM Plant?	
a) Mango	b) Coconut
c) Kiwifruit	d) Pineapple
(12) Among the Following, Which is an Example of	"'Upright Growth of Stems?
a) Phototropism	b) Positive geotropism
c) Negative geotropism	d) Auxin tropism
(13) What is the Rate of Photosynthesis in C4 Plants	3?
a) Higher	b) Moderate
c) Low	d) Very low
(14) Who Gave the 'Root Pressure' Theory?	
a) J.C. Bose	b) Godlewski
c) Stephan Hales	d) Boehm
(15) A Dark Reaction Takes Place in	-
a) Grana	b) The stroma of chloroplast
c) Grana and Stroma both	d) Mitochondria
(16) What is the Name of the Process By Which Tur	gidity of a Cell is Maintained?
a) Wall pressure	b) Osmotic pressure
c) Diffusion pressure	d) Turgor pressure
(17) Wilting of a Plant is a Result of Excessive -	
a) Transpiration	b) Absorption
c) Photosynthesis	d) Respiration
(18) What is the Reason for Seed Dormancy?	
a) Starch	b) Glucose
c) Ethylene	d) Abscisic acid
(19) Due to the Uneven Distribution of	Phototropic Curvature Occurs
a) Auxin	b) Cytokinins
c) Phytochrome	d) Gibberellin
(20) Peroxisomes are involved in which type of reac photosynthesis?	tions pertaining to plant
a) Calvin Cycle	b) Glycolytic cycle
c) Glyoxylate cycle	d) Bacterial photosynthesis
(21) The physical process involved in the release of	molecular oxygen from leaves is

a) diffusion	b) transpiration	
c) osmosis	d) capillarity	
(22) Translocation of carbohydrate nutrients usually occurs in the form of		
a) glucose	b) maltose	
c) starch	d) sucrose	
(23) Chief function of leaves are		
a) transpiration and photosynthesis	b) respiration and photosynthesis	
c) respiration and digestion	d) respiration and transpiration	
(24) End product of glycolysis is		
a) acetyl CoA	b) pyruvic acid	
c) glucose-1 -phosphate	d) fructose-1-phosphate	
(25) The ultimate gain of light reaction is		
a) ATP and NADPH2	b) NADPH2	
c) only ATP	d) only O2	
(26) End product of fermentation of sugars is		
a) H2O and CO2	b) CO2	
c) alcohol and CO2	d) alcohol	
(27) Which of the following is not performed by root hairs?		
a) Water uptake	b) Oxygen uptake	
c) Mineral uptake	d) CO2 uptake	
(28) The specialized cells in between epidermis ar	nd vascular layer of root are known as-	
a) Cork cambium	b) Xylem	
c) Phloem	d) Cortex	
(29) In Hatch and Slack cycle, the final product sy	enthesized is considered as -	
a) Pyruvate	b) 3 Phospho glycerate	
c) Phopho glyceric acid	d) Phospho Enol Pyruvate	
(30) In TCA cycle, a total number of molecule of Glucose -	ATP is synthesized from single	
a) 4	b) 8	
c) 18	d) 24	
(31) The event of C4 pathway mainly observed in	-	
a) Rice	b) Wheat	
c) Maize	d) Pineapple	
(32) The highest rate of transpiration is taken plac	e through-	
a) Stomatal transpiration	b) Cuticular transpiration	
c) Lenticular transpiration	d) Hydathode transpiration	
(33) The phyto-hormone which promotes seed germination is-		
a) Auxin	b) Cytokynin	
c) Gibberellin	d) Abscisic acid	
(34) Formulae of Graham's law on diffusion depicted as -		
a) (d $\alpha 1/\sqrt{D}$)	b) (D $\alpha 1/\sqrt{d}$)	
c) (D α d)	d) (D α1/d)	
(35) 'Ghost Cell' is basically-		

 a) Cell raptures when put in hypotonic solution 	b) Cell become shrink & flacid when put in hypertonic solution
c) Cells getting dried out due to transpired heavily	d) none of these
(36) The type of movement of water molecules the cells and also a type of water transport in plants.	
a) Diffusion	b) Symplastic movement
c) Apoplastic movement	d) Transmembrane movement
(37) Which one is incorrect about imbibition of p	plant seed-
a) Heat is generated or released	b) Volume is changed
c) Pressure is created internally	d) None of these
(38) The reason of occurrence of chlorosis in lea	ves is due to the deficiency of -
a) Ca	b) K
c) Na	d) Mg
(39) Which initial ionic exchange takes place for	opening of stomata during night time?
a) Na+ & K+	b) Na+ & H+
c) H+ & K+	d) None of these
(40) Cristae is the folded part of the inner membrates	,
a) Golgibody	b) Mitochondria
c) Peroxisome	d) Cytosol
(41) Nucleolus is the hub for the synthesis of-	
a) RNA	b) DNA
c) Both RNA & DNA	d) Protein
(42) Science that measures the timing of life cycle	,
as-	ic events for plants and animals is known
a) Phenocopy	b) Pleiotropy
c) Botany	d) Phenology
(43) Under growth measurement, arithmetic grov curve	, 63
a) Linear	b) Sigmoid
c) Parabolic	d) Hyperbolic
(44) Which type of plants are belong to Monocor	t category-
a) Grass	b) Shrub
c) Tree	d) Both grass and tree
(45) The concept of photoperiodism was given b	,
a) Garner & Allard	b) Darwin
c) Pavlov	d) None of these
(46) Which type of cell organelle is the site of ph	,
a) Ribosome	b) Peroxisome
c) Rough ER	d) Smooth ER
(47) A family of proteins that form channels to fa	
membranes-	-
a) Porin	b) Symporin
c) Aquaporin	d) Carrier protein

(48)	enables xylem walls very rigid to	prevent them collapsing under the large
tension	forces set up by transpiration pull-	
a) Ligni	n	b) Suberin
c) Cutic	le	d) None of these
(49) The cell organelle which is responsible for shipment in transport vesicle and also known as shorting and processing center of cell-		
a) Mitoc	chondria	b) Golgi body
c) Endo	plasmic Reticulum	d) Nucleus
(50) The in	ner matrix of Mitochondria is the site o	f-
a) TCA	cycle	b) Fatty acid breakdown
c) Both	TCA cycle & Fatty acid breakdown	d) Glycolysis