

BRAINWARE UNIVERSITY

Term End Examination 2021 - 22 Programme – Bachelor of Science (Honours) in Agriculture Course Name – Fundamentals of Agronomy-II Course Code - CC-BAG276(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) One of the following is not an auxin a) Indole-3-acetic acid b) Malic Hydrazide c) Indole butyric acid d) Naphthalene acetic acid (2) can stimulate the germination of barley seeds a) ά-amylase b) Abscisic acid c) Benzoic acid d) Coumarin (3) Seed dormancy is triggered by a) Indole-3-ethanol b) Abscisic acid c) Carbon dioxide d) None (4) The significance of the day length in plants was first shown in b) Lettuce a) Barley c) Tobacco d) Tomato is a plant hormone generally present in the gaseous state a) Ethylene b) Ethane d) None c) Argon (6) is a colourless gas that serves as a signalling hormone. a) Benzene b) Nitric Oxide

(8) What is the first step in the process of plant growth?

(7) Typical plant growth shows _____ curve.

c) Ozone

a) J-shaped

c) I-shaped

d) None

b) S-shaped

d) Parabolic

a) Seed fermentation	b) Seed desiccation
c) Seed germination	d) Seed dormancy
(9) In how many phases the period of growth	is divided?
a) One	b) Two
c) Three	d) Four
(10) Which of the following curves is a charac	teristic of plants?
a) Hyperbola	b) Straight line
c) Linear curve	d) Sigmoid curve
(11) Which of the following phenomena include plant from seed emergence to death?	des all the changes undergone by a living
a) Dedifferentiation	b) Development
c) Differentiation	d) Redifferentiation
(12) Which of the following phenomenon lead dedifferentiated cells upon maturity?	s to the specification of functions of
a) Dedifferentiation	b) Development
c) Differentiation	d) Redifferentiation
(13) The hormone which can replace vernaliza	tion is
a) IAA	b) ABA
c) GA	d) Kinetin
(14) What is the growth rate?	
a) Increased growth per unit distance	b) Decreased growth per unit distance
c) Increased growth per unit time	 d) Intermediate growth between time and distance
(15) The physiological response of plants to the	e duration of light and darkness is a
a) Daily phase cycle	b) circadian rhythms
c) biological clock	d) photoperiodism
(16) ABA is involved in	
a) shoot elongation	b) increased cell division
c) dormancy of seed	d) root elongation
(17) To avoid severe drought stress, clouser of	stomata is signalled by production of
a) ABA	b) IAA
c) NAA	d) IBA
(18) Growth is a	
a) Irreversible increase in size	b) Reversible increase in size
c) Reversible increase in shape	d) Increases in volume
(19) Example of Sciophyte is	
a) maize	b) buckwheat
c) sorghum	d) rice
(20) Example of Short day plant is	
a) wheat	b) oat
c) lentil	d) rice
(21) Value of normal lapse rate is	

a) 4.5°C per 1km.	b) 5.5°C per 1km.
c) 6.5°C per 1km.	d) 10.5°C per 1km.
(22) Stratosphere extends upto an altitude of	
a) 15 km	b) 18 km
c) 25 km	d) 50 km
(23) is the coldest place on Earth	
a) Troposphere	b) Stratosphere
c) Mesosphere	d) Thermosphere
(24) Example of Microtherm is	
a) Rice	b) Wheat
c) Maize	d) Sorghum
(25) For most of the field crop cardinal temper	erature ranges between
a) 0-5°C	b) 10-15°C
c) 15-30°C	d) 30-38°C
(26) Base temperature for wheat is	
a) 10°C	b) 7.4°C
c) 5.6°C	d) 4.5°C
(27) Break down of essential compounds like	vitamins is known as
a) Starvation injury	b) Biochemical lesion
c) Toxin injury	d) Glaze
(28) Drought increases the concentration of _	in plant leaves and roots
a) Sugar	b) Abscisic acid
c) Both Sugar and Abscisic acid	d) Cytokinin
(29) The ratio of the mass of water vapor to the	he mass of moist air is called
a) Absolute humidity	b) Specific humidity
c) Relative humidity	d) None
(30) Common parameter for expressing water	r vapor content of the air is
a) Absolute humidity	b) Specific humidity
c) Relative humidity	d) None
(31) When the vapor pressure deficit is <1.5 l	kPa, air is said to be
a) Humid	b) Dry
c) Very dry	d) Wet
(32) Tumour cells are good example for	
a) cell enlargement	b) differentiation
c) dedifferentiation	d) redifferentiation
(33) is termed as temporary drought	t
a) Meteorological drought	b) Hydrological drought
c) Agricultural drought	d) Atmospheric drought
(34) Drought with marked depletion of surfactivers, reservoirs etc.	ce water and consequent drying up of lakes,
a) Meteorological drought	b) Hydrological drought
c) Agricultural drought	d) Atmospheric drought

(35) When the actual rainfall is significantly lower rainfall over a wide area is considered as	than the climatologically expected	
a) Meteorological drought	b) Hydrological drought	
c) Agricultural drought	d) Atmospheric drought	
(36) crop can be cultivated if North-Eas	t Monsoon delayes upto first week of	
a) Bajra	b) Pulse	
c) Sunflower	d) All	
(37) In forage, crops, ideal plant type consists of _	?	
a) tall, leafy, high leaf and stem ratio	b) dwarf	
c) less greenness	d) high root toshoot ratio	
(38) Gibberellins are derivatives of		
a) Monoterpenes	b) Sesquiterpenes	
c) Diterpenes	d) Triterpenes	
(39) Richest source of gibberellin in higher plant is	s	
a) Root	b) Stems	
c) Leaf	d) Immature seeds	
(40) The credit for discovery of kinetin goes to		
a) Miller et al	b) Letharn et al	
c) Zachau et al	d) none	
(41) Chemical name of kinetin is		
a) 6-furfuryl amino purine	b) 6-furfurylamino pyrimidine	
c) 5-furfurylamino purine	d) None	
(42) Fruit ripening hormone is		
a) ethylene	b) auxin	
c) kinetin	d) All of above	
(43) Brassinosteroids are biosynthesized in plants	from	
a) Sitosterol	b) Cholesterol	
c) Campesterol	d) None	
(44) Antigibberellins such as cycocel (CCC) find e	extensive use in	
a) food industry	b) breweries	
c) floriculture industry	d) none	
(45) Minimum lag time for auxin-induced growth	is	
a) 10 minutes	b) 15 minutes	
c) 20 minutes	d) 30 minutes	
(46) Immediate precursor of ethylene biosynthesis	in plants is	
a) Methionine	b) S-Adenosyl methionine	
c) 1-Aminocyclopropane-1-carboxylic acid (ACC)	d) None	
(47) The primary hormones causing abscission of	leaves is	
a) ABA	b) IAA	
c) Ethylene	d) Cytokinin	
(48) The term Ideotype was coined by		

a) Donald	b) Hamblin
c) Thorne	d) None
(49) First semi-dwarf, high-yielding modern ric	ce variety of rice
a) IR8	b) TN1
c) Padma	d) Lunisree
(50) The term 'Phytohormone' was coined by	
a) Hamblin	b) Jennings
c) Thorne	d) Thimann