## EXERCISE – I (Conceptual Question)

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1.	Primary precursor of I.A.A is :- (1) Phenyl alanine (2) Tyrosine	(3) Tryptophan	(4) Leucin						
2.	The biological activity of I.A.A is tested by	v ·-							
2.	(1) $\alpha$ - amylase test	(2) Avena curvature	test						
	(3) Endosperm activity test	(4) Chlorophyll pres							
3.	Insole, 3 acetic acid, celled ad auxin was fi								
	(1) Human urine (2) Corn germ oil	(3) Fusarium	(4) Rhizopus						
4.	Stem elongation is affected by :-								
	(1) Gibberellins and florigen	(2) Auxin and gibbe	rellins						
	(3) Florigen and kinin	(4) Kinin and auxin							
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5.	Apical dominance means :-	, mavillany buda							
	<ul><li>(1) Suppression of growth of apical bud by maxillary buds</li><li>(2) Suppression of growth of axillary buds by the presence of apical bud.</li></ul>								
	(3) Stimulation of growth of axillary buds								
	(4) Inhibition of growth of axillary buds by								
6.	Auxin inhibits the growth of -								
	(1) Apical bud (2) Pasta en stern sutting	(2) Lateral axillary b							
	(3) Roots on stem cutting	(4) Parthenocarpic d	evelopment of fruit						
7.	Which of the following is not a natural occurring plant hormone?								
	(1) 2, 4 - D (2) GA <sub>2</sub>	(3) Gibberellin	(4) I.A.A						
8.	Leaf fall occurs when the content of :-								
	(1) Auxin increases (3) Absoisie acid decreases	<ul><li>(2) Auxin decreases</li><li>(4) Gibberellic acid</li></ul>	daaraasas						
	(3) Abscisic acid decreases	(4) Gibbereine acid	uecreases						
9.	Auxanometer is meant for measuring								
	(1) Respiratory activity	(2) Photosynthetic a	ctivity						
	(3) Growth activity	(4) Osmotic pressure	e						
10	A unin is mainly and have does								
10.	Auxin is mainly produced by - (1) Apical root meristem	(2) Root cambium							
	(3) Apical shoot meristem	(4) Phloem in shoot	tip						
		(.,	· r						
11.	In plants growth is								
	(1) Restricted to certain regions or structur	e							
	(2) Irreversible								
	<ul><li>(3) Change in size</li><li>(4) All the above</li></ul>								
12.	Growth is primarily affected by two climat	tic factors which are ?							

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	<ul><li>(1) Light and temperature</li><li>(3) Light and wind</li></ul>	<ul><li>(2) Temperature and</li><li>(4) Rainfall and temp</li></ul>	•					
13.	In a growing plant, the first phase during the process of growth is -(1) Cell division(2) Cell enlargement(3) Cell differentiation(4) Cell maturation							
14.	<ul> <li>The natural plant hormones were first isolated from</li> <li>(1) Cotton fruits, spinach leaves and rice plant</li> <li>(2) Avena coleoptiles, spinach leaves and fungus Gibberella</li> <li>(3) Human urine and com germ oil</li> <li>(4) Human urine and rice plant</li> </ul>							
15.	Plants bend toward the light because – (1)They need light for photosynthesis (3) Light attracts them	or respiration ed side elongate more						
16.	If the tip of a seedling is cut off growth as v (1) Respiration (3) Perception of light stimulus	well as bending ceases (2) Photosynthesis (4) Transpiration	because it hampers					
17.	Growth hormone acts – (1) Always as growth promoters (2) Always are growth inhibitors (3) Some as promoters and some as inhibitors (4) Rarely as growth inducers							
18.	The movement of auxin is largely(1) Acropetal(2) Basipetal	(3) Lateral	(4) Centripetal					
19.	Which growth hormone is responsible for a(1) Auxin(2) Cytokinin	pical dominance ? (3) Gibberellin	(4) Ethylene					
20.	2, 4 - D is a synthetic – (1) Auxin (2) Gibberellin	(3) Cytokinin	(4) Aorigen					
21.	Which of the following induces femaleness (1) Ethylene (2) Ethanol	s in plants ? (3) ABA	(4) Gibberellin					
22.	Agent orange is (1) Biodegradable insecticide (3) Biofertilizer	(2) Dioxin weedicide (4) Biopesticide	e (2,4-D + 2,4;5-T)					
23. 24.	Richmond - Lang effect is due to :(1) Cytokinin(2) AuxinA hypothetical chemical beloved to be invo(1) Gibberellins(2) NAA	<ul><li>(3) ABA</li><li>olved in flowering is :</li><li>(3) Aorigen</li></ul>	<ul><li>(4) All the above</li><li>(4) IAA</li></ul>					

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25.	Photoperiodic stimulus is picked up by :(1) Phytochrome(2) Phytohormome	(3) Enzyme	(4) Vernalin				
26.	Which of the following plant hormone sub (1) Auxin(2) Gibberellin	ostitutes for long photo (3) Cytokinin	period in flowering plant ? (4) Ethylene				
27.	Intermodal elongation is stimulated by : (1) Auxin (2) Cytokinin	(3) Gibberellin	(4) Phenol				
28.	Cytokinin – (1) Is a hormone whose main function is to (2) Induce bolting (3) Induce senescence (4) Causes dormancy	o induce the cell divisio	on				
29.	Bolting hormone is(1) Auxin(2) Gibberellin	(4) Ethylene	(3) ABA				
30.	Gibberellins are (1) Growth inhibitors (3) Not concerned with growth at all	<ul><li>(2) Growth promotor</li><li>(4) Of little potential in agriculture</li></ul>					
31.	Gibberellins do not cause (1) Shortening of genetically tall plants (3) Promotion of parthenocarpy	<ul><li>(2) Stimulation of seed germination</li><li>(4) Induction of a- amylase synthesis in barley</li></ul>					
32.	Gibberellins can promote seed germination (1) Rate of cell division (3) Synthesis of abscisic acid	<ul><li>because of their influence on :</li><li>(2) Production of hydrolyzing enzymes</li><li>(4) Absorption of water through hard seed coat.</li></ul>					
33.	Which of the following is a coconut milk f (1) Auxin (2) ABA	Cactor? (3) Morphactin	(4) Cytokinin				
34.	In germinating seeds Amylase, Proteases, Lipases are stimulated by : (1) Auxin (2) Gibberellin (3) Cytokinin (4) Ethylene						
35.	Richmond lang effect due to cytokinins pe (1) Root formation (3) Delay of senescence	rtains to (2) Apical domiopnce (4) Leaf formation					
36.	Which one of the following is a gaseous pl(1) Auxin(2) Gibberellin	ant hormone ? (3) Ethylene	(4) Cytokinin				
37.	Pomalin is sprayed over apple to increase a (1) Auxin (3) Mixture of auxin and cytokinin	<ul> <li>Fruit size, it is -</li> <li>(2) Mixture of auxin and gibberellin</li> <li>(4) Mixture of cytokinin and gibberellin</li> </ul>					

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38.	Apical dominance can be overcome by a (1) Auxin(2) Gibberellin		(4) Florigen					
39.	The maximum growth rate occurs in : (1) Exponential phase (3) Senescent phase	<ul><li>(2) Stationary phase</li><li>(4) Lag phase</li></ul>						
40.	Dormancy of seed is broken by : (1) Auxin (2) Gibberellins	(3) Ethylene	(4) Cytokinin					
41.	In tissue culture, differentiation of shoot (1) Light Intensity (3) Low Auxin to high CK	(2) Temperature shock	controlled by: (2) Temperature shock (4) High auxin to low CK					
42.	Pine apple can made to flower in off seas(1) Zeatin(2) Ethylene		(4) Low temperature					
43.	Among the following which helps in earl(1) Methane(2) Ethylene		(4) CO					
44.	Abscisic acid induces : (1) Shoot elongation (3) Cell division	<ul><li>(2) Cell elongation and cell wall formation</li><li>(4) Leaf fall and dormancy</li></ul>						
45.	In autumn leaf fall occurs, because (1) Formation of abscission layer at the base (2) Leaf becomes heavy (3) Leaf does not remain green (4) Of low temperature							
46.	Which of the following is growth inhibit (1) IAA (2) ABA		(4) GA <sub>3</sub>					
47.	Abscisic acid treatment results in- (1) Leaf expansion (2) Stem elongation	n (3) Stomatal closure	(4) Root elongation					
48.	Natural cell division inducing factor occu (1) Coconut milk (3) Both (1) and (2)	s in (2) Immature maize seeds (4) Heated t - RNA						
49.	Seeds of Tomato do not germinate in its (1) Presence of excess salts (3) Absence of oxygen	(2) Presence of ferulic (4) Presence of ABA	acid					
50.	What is a stress hormone ? (1) Benzyl aminopurine (3) Ethylene	(2) Dichlorophenoxy a (4) Abscisic acid	cetic acid					

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51.	Seed dormancy is du (1) Ethylene	te to the : (2) Abscisic acid	(3) IAA	(4) Starch						
52.	Hormone responsibl (1) ABA	e to induce senescer (2) Auxin	nce : (3) GA	(4) Cytokinin						
53.	One set of a plant was grown at 12 hrs. day and 12 hours night period cycles and it flowered. While in the other set night phase was interrupted by flash of light and it did not flower. Under which one of I the following categories will you place this plant (1) Short day (2) Long day (3) Darkness neutral (4) Day neutral									
54.	Long day plant's pro (1) Any duration of (3) Light period long	light	(2) Light perio	exposed to : (2) Light period longer than a critical day length (4) Short photoperiods than critical day length						
55.	Which of the follow (1) Gibberellins	ing is a hypothetical (2) Auxin	l hormone? (3) Cytokinin	(4) Florigen						
56.	Which plant is LDP (1) Tobacco	? (2) Glycine max	(3) Xanthium	(4) Spinach						
57.	Wheat & henbane as (1) SDP	re :- (2) DNP	(3) LNP	(4) LDP						
58.	<ul> <li>In short day plants (SOP) flowering is induced by</li> <li>(1) Long night</li> <li>(2) Photoperiod less than 12 hours</li> <li>(3) Photoperiod shorter than critical value and uninterrupted long night.</li> <li>(4) Long photoperiod and interrupted long night,</li> </ul>									
59.	Which is not a plant (1) Phytochrome	hormone - (2) Florigen	(3) GA	(4) IAA						
60.	Which pigment absorbs the red and far-red light?(1) Cytochrome(2) Phytochrome(3) Carotenoids(4) Chlorophyll									
61.	Cell elogation in internodel regions of the green plants takes place due to : (1) Ethylene (2) Indole acetic acid (3) Cytokinin (4) Gibberellins									
62.	Prunning of plants p (1) Ethylene	romotes branching, (2) Gibberellin	because the axillary (3) Cytokinin	buds get sensitized to : (4) IAA						
ANSWER KEY EXERCISE-I (Conceptual Question)										
1.	(3) <b>2.</b> (2)	<b>3.</b> (1) <b>4.</b>		(2) <b>6.</b> (2) <b>7.</b> (1)						
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8.	(2)	9.	(3)	10.	(3)	11.	(4)	12.	(1)	13.	(1)	14.	(3)
15.	(4)	16.	(3)	17.	(3)	18.	(2)	19.	(1)	20.	(1)	21.	(1)
22.	(2)	23.	(1)	24.	(3)	25.	(1)	26.	(2)	27.	(3)	28.	(1)
29.	(2)	30.	(2)	31.	(1)	32.	(2)	33.	(4)	34.	(2)	35.	(3)
36.	(3)	37.	(4)	38.	(3)	39.	(1)	40.	(2)	41.	(3)	42.	(2)
43.	(2)	44.	(4)	45.	(1)	46.	(2)	47.	(3)	48.	(3)	49.	(2)
50.	(4)	51.	(2)	52.	(1)	53.	(1)	54.	(2)	55.	(4)	56.	(4)
57.	(4)	58.	(3)	59.	(1)	60.	(2)	61.	(4)	62.	(3)		