

Control and Coordination (Worksheet Objective)

1. A plant placed near a window bends outward because (A) its tip is able to obtain more light (B) its tip is able to receive necessary warmth (C) the auxin content on the shaded side is higher than that on the lighter side and as a result the shaded side elongate more than the cells on the illuminated side and the tip bends outward. (D) its tip is able to get more oxygen 2. Phototropic and geotropic movements in plants have been traced to be linked with (B) starch (C) gibberellins (D) auxins (A) enzymes 3. Phototropic movements of roots and stems are due to (A) action of gravity (B) effect of light (C) differential hormonal effect (D) epinasty and hyponasty 4. Bending of growing shoot towards sunlight is called (C) photonasty (B) hydrotropism (D) phototropism (A) heliotropism 5. Clinostat is the apparatus, which is used to (A) measure growth of stem (B) eliminate the effect of gravity causing geotropism (C) identify the chemicals present in stem tip (D) measure growth rate 6. Thigmotropism is best exhibited by (B) stem apex (C) root apex (D) leaf apex (A) tendrils 7. Pneumatophores are (B) negative phototropic (A) positive geotropic (C) thigmotropic (D) ageotropic 8. Indian telegraph plant commonly known as (B) Crotolaria juncea (A) Desmodium gyrans (C) Butea monosperma (D) Malva indica 9. The closure of lid of pitcher in pitcher plant is (A) a paratonic movement (B) a tropic movement (C) a turgor movement (D) an autonomous movement 10. Auxanometer is meant for (A) photosynthetic activity (B) growth activity (C) the amount of auxins (D) respiratory activity 11. Movements of leaves of the sensitive plant Mimosa pudica is due to (A) thermonasty (B) seismonasty (C) photonasty (D) nyctinasty 12. Which of the following movements in plants is NOT related to changes in auxin levels? (A) Nyctinastic leaf movements (B) Movement of roots towards soil (C) Movement of sunflower tracking the direction of sun (D) Movement of shoot towards light



13.	Movement of hairs in Drosera is						
	(A) photonastic	(B) thermonastic	(C) thigmonastic	(D) seismonast	ic		
14.	Leaves of many grasses are capable of folding and unfolding because they						
	(A) are isobilateral		(B) have specialised by	ulliform cells			
	(C) have parallel vascular bundles (D) are very thin						
15.	Agent orange is a herbicide that contains synthetic						
	(A) auxin	(B) cytokinin	(C) gibberellins	(D) pigments			
16.	Avena coleoptile test t	o find out growth promoti	ng hormones was perfor	med by:-			
	(A) Went	(B) Lysenko	(C) Butler	(D) Borthwick			
17.	Which of the following	effects of auxins is of wid	de application:-				
	(A) Induction of fruit de	evelopment	(B) Induction of root ini	tiation			
	(C) Prevention of abso	cission	(D) All of the above				
18.	Stem elongation is affected by :-						
	(A) Gibberellin and flo	rigen	(B) Auxin and gibberellin				
	(C) Florigen and kinin (D) Kinin and auxin						
19.	Apical dominance means:						
	(A) Supression of growth of apical bud by axillary buds						
	(B) Supression of growth of axillary buds by the presence of apical bud						
	(C) Stimulation of growth of axillary buds by removal of apical bud						
	(D) Inhibition of growth of axillary buds by removal of apical bud						
20.	Which of the following is not natural occuring plant hormone:-						
	(A) 2, 4-D	(B) Cytokinin	(C) Gibbrellin	(D) I.A.A			
21.	Parthenocarpy is the production of :-						
	(A) Fruits with pollinat	ion	(B) Fruits without fertili	zation			
	(C) Seeds with fertiliza	ation	(D) Only seeds and no	fruits			
22.	Phytohormone term was coined by -						
	(A) Gregory and Purvi Thimann				(C)		
23.	Cytokinin:-						
	(A) Is a hormone whose main function is to induce the cell division						
	(B) Is the process of cell division						
	(C) Retards cell division						
	(D) Causes dormancy						
24.	Gibberellin was first extracted from -						
	(A) Gibberella	(B) Gellidium	(C) Gracillaria	(D) Aspergillus			



25.	Which of the following breaks the dormancy of seeds-							
	(A) IAA (D) All of the above	ve	(B) GA			(C) Ethylene		
26.	Abscisic acid induces	-						
	(A) Shoot elongation		(B) Cell e	elongation and	cell wall f	formation		
	(C) Cell division		(D) Leaf	fall and dormar	ncy			
27.	Which of the following is a hypothetical hormone-							
	(A) Gibberellin	(B) Auxin	(C) Cytol	kinin	(D) florig	gen		
28.	Which plant is LDP -							
	(A) Tobacco	(B) Glycine	(C) Mirat	oilis	(D) Spin	ach		
29.	Mimosa (touch me no	t plant) shows:-						
	(A) Thigmotropism movement		(B) Chen	(B) Chemotactic movement				
	(C) Thigmonasty		(D) Seisr	nonasty				
30.	The two systems that regulate the activities of other systems of an animal are-							
	(A) nervous system a	nd muscular system	(B) 6	endocrine syste	em and	respiratory sys	stem	
	(C) parvous system a	nd andooring avetem	(D) n	ougoular aveter	n and ac	acc organo		
31.	(C) nervous system a	-	` ,	nuscular syster		•		
31.	In which direction does the nerve impulse travel once it is received by the receptor? (A) Terminal branches, axon, cell body and dendrite							
		ell body and terminal brac						
		on, cell body and termina						
		endrite and terminal bran						
32.		heath on an impulse is	CITCS					
JZ.								
	(A) to affect the speed of the incoming impulse(B) to moderate the speed of the incoming impulse							
	(C) to increase the speed of conduction of the impulse							
			•	sneed of the im	nulse			
33.	(D) It is insulating material and has nothing to do with the speed of the impulse At most of the synapses-							
	(A) an electric current		(B) th	nere is contact	between	two neurons		
	(C) heat is produced released	, , , , , , , , , , , , , , , , , , , ,	(D)	neurohumors		urohormones	are	
34.	Learning, abstract thir	nking, memory and behav	iour of a pe	erson are gove	rned by:-			
	(A) cerebellum	(B) cerebrum	(C) thala	mus	(D) med	ulla		
35.	The cerebellum is cor	cerned with:-						
	(A) coordination of mu	(B) n	(B) memorization of facts					



	(C) perception lungs			(D) regulation of the	ne working of	the heart and		
36.	Reflex action in a bod	y is not :-						
	(A) inborn (C) protective in natur	(B) automatic and quick e (D) voluntary	k					
37.	The number of cranial nerves is :-							
	(A) ten pairs in man a	nd ten pairs in a toad		(B) thirteen pairs in	man and ten	pairs in a toad		
	(C) twelve pairs in ma toad	n and ten pairs in a toad		(D) twelve pairs in	man and twe	lve pairs in a		
38.	The following are not	the functions of medulla o	of the	brain:-				
	(A) control of voluntary	y actions, memory and jud	dgem	nent				
	(B) respiration and co	ughing						
	(C) circulation and hea	art beat						
	(D) swallowing and vo	miting						
39.	Neurohumors released by the terminal branches of neurons are:-							
	(A) acetylcholine and	noradrenaline	(B)	sympathin and thyr	roxine			
	(C) acetylcholine and cholinesterase (D))) cholinesterse and noradrenaline					
40.	Maximum developed							
	(A) sharks	(B) rabbit	(C)	man	(D) whale			
41.	Dorsal nerve cord is c	haracteristic of :-						
	(A) earthworm	(B) hydra	(C)	amoeba	(D) primates			
	()	(=),	(-)		(=)			
42.	The conditioned reflex	was discovered by :-						
	(A) Watson and Crick		(B)	Pavlov				
	(C) Morgan			(D) Mendel				
43.	The main portion (s) of a neuron is /are :-							
	(A) cyton with dendrites (B)		(B) axon with or without sheath					
	(C) terminal branch (D)		All of the above					
44.	Grey matter of the brain contains:-							
	(A) cell bodies							
	(B) cell bodies with processes							
	(C) cell bodies with pr	ocesses and a large num	ber o	f synapses				
	(D) sensory and moto	r nerve cells						
45.	-	s the following function of	f the I	body, excluding:-				
	(A) sleep	-		-	(B) body	temperature		



	(C) osmoregulation received through sens	se organs		(D)	analysis	of	stimuli
46.	The longest cell in the body of an animal is						
	(A) osteocytes	(B) neuron (C) chromatophores	(D) lymph corpuscles				
47.	Which cell stops divid	ing after birth?					
	(A) Glial cells	(B) Epithelium	(C) Liver	(D) N	leuron		
48.	The largest number o	f cell bodies of neurons in	n our body is found in :-				
	(A) brain	(B) spinal cord	(C) tongue	(D) re	etina		
49.	Which of the following	is NOT a function of neu	ıron ?				
	(A) Receive information	on	(B) Conduct a signal				
	and the Property of the		(C) Form the myelin sh	neath	(D)	Co-c	ordinate
50	metabolic activities						
50.	Hearing is controlled					(0)	
	(A) temporal lobes hypothalamus	(B) cerebrum (D) parietal lobe				(C)	
51.			in regulate the temperators is located in the mamma				
	(A) cerebrum (C) cerebellum	(B) hypothalamus (D) medulla oblongata					
52.	Spinal cord passes th	rough:-					
	(A) obturator foramen		(B) condylar canal				
	(C) sphenopalatine fo	ramen	(D) foramen magnum				
53.	Receptors of pressure	e present in deep layers o	of skin are:-				
	(A) Krause's end bulb		(B) Meissner's corpus	cles			
	(C) Corpuscls of Ruffi	ni	(D) Pacinian corpuscle	es			
54.	The speed at which in	npulses are conducted in	crease with :-				
	(A) incresing diamete	r of the soma	(B) increasing diamete	er of the	axon		
	(C) increasing numbe	r of dendrites	(D) increasing branchi	ng of th	e dendrit	es	
55.	Which hormone when	secreted increases hear	t beats-				
	(A) Insulin	(D) Testosterone	(B) Adrenalin		(C) Co	ortisor	ne
56.	Nissl's body found in	neuron are-					
	(A) made up of DNA		(B) made up of ribosor	mes & F	RER		
	(C) helps in formation	of neurofibrils	(D) mass of mitochono	lria			
57.	Insulin and glucagon	are produced in the :-					



67.

Science (Class X)

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	(A) liver			(B) thyroi	d			
	(C) Islets of Langerha	ans present in the pancre	eas	1)	D) spleen			
58.	Insulin is :-							
	(A) an enzyme which sugar	digests protein	(B) a hormone	which help	s metabol	ism of		
	(C) a hormone which glucose	promotes growth	(D) an enzyme	which conve	ert invertas	se into		
59.	Injecting a tadpole wi	th thyroxine would lead to	0 :-					
	(A) giant but normal t metamorphosis	adpoles		(B)	pred	cocious		
	(C) stoppage of meta	morphosis		(D) atroph	hy of gonac	ds		
60.	A very high level of ca	alcium in the blood sugge	est malfunction of the :-					
	(A) parathyroid	(B) thyroid	(C) thymus	(D) adren	al gland			
61.	Cortisone is used for endocrine glands pro	or the treatment of infar duces cortisone-	nmation, allergy and ar	thritis. Whic	h of the fo	llowing		
	(A) Thyroid	(B) Pancreas	(C) Adrenal	(D) G	onads			
62.	Proprioceptors are:-							
	(A) meant for detecting pressure in the skin							
	(B) for magnifying sound in the internal ear							
	(C) internal sense or	gans which occur most fr	requently in muscles					
	(D) for the detection of	of direction of waves in fis	shes					
63.	Production of ADH, m	nonitor of temperature an	d blood pressure, is main	nly controlled	t by:-			
	(A) cerebellum	(B) cerebrum	(C) hypothalamus	(D) medu	lla			
64.	The amount of glucos	se in the blood is controlle	ed by:-					
	(A) water insulin and adrenaline	e		(B) com	bined act	ion of		
	(C) adrenaline alone			(1	D) insulin	alone		
65.	Islets of Langerhans	produce:-						
	(A) insulin and secret adrenaline	in		(B) g	glucagon	and		
	(C) insulin and glucag noradrenaline	gon		(D)	ACTH	and		
66.	The type of behavio stimulus is called :-	our in which a substitute	e stimulus evokes the sa	ame respons	se as the o	original		
	(A) reflex action reflex action			(1	B) cond	litioned		
	(C) operon				(D)	habit		

The gland whose hormones affects the functions of many other endocrine glands is



	(A) thyroid gland	(B) pituitary gland	(C) pancreas	(D) p	arathyroid			
68.	A man suddenly sees a is released at this time	a tiger. His heartbeat goes in his body:-	up, blood pressue ir	ncreases, etc. V	/hich hormone			
	(A) Parathormone Thyroxine	(B) Adrenaline		(C) Corticoid	(D)			
69.	The first hormone to be	isolated was:-						
	(A) thyroxine(D) secretin	(B) testosterone		(C) epine	ephrine			
70. target o	According to the accept organs:-	ted concept of hormone act	ion, if receptor mole	cules are remov	red from			
	(A) the target organ will	continue to respond to the	hormone without an	y difference				
	(B) the target organ will	continue to respond to the	hormone but will red	quire higher				
	(C) the target organ will	not respond to the hormon	ie					
	(D) the target organ will	continue to respond to the	hormone but in the	opposite way.				
71.	In an accident the ansurvived. What is likely	terior pitutary of a four ye to happen:-	ear old boy was se	verely damage	d but the boy			
	(A) High levels of thyrox	xine will be released						
	(B) Spermatogenesis will be released							
	(C) The boy will not gro	w much in height						
	(D) The growth of mam	mary glands will be stimula	ted					
72.	A gorilla like man with h	nuge hand and legs. This is	due to the abnorma	secretion of :-				
	(A) pituitary FSH	(B) pituitary LH		(C) pituitary	GH (D) thyroid			
73.	LH and FSH are called							
	(A) antistress hormones hormones	S		(B)	gonadotropic			
	(C) emergency hormon	е		(D) neur	ohormones			
74.	FSH is to estrogen as L	.H is to :-						
	(A) vasopressin (D) LTH	(B) testosterone		(C) progeste	rone			
75.	Failure of insulin produc	ction results in :-						
	(A) addison's disease (C) diabetes insipid	lus		(B) cushing's (D) diab	disease betes mellitus			
76.	Deficiency of the thyrox	ine / hypothyroidism in adu	Its results in					
	(A) diabetes mellitus insipidus			(B)	diabetes			
	(C) myxodema exopthalamic goitre & a	adrenal			(D)			
77.	Which of the following p	process occurs only in anim	als-					
	(A) Hormonal control (C) Nervous control			(B) Respirati (D) Nutrition	on			
78.	Diabetes is due to -							



	(A) Hormonal deficience	у		(B) Sodium deficiency
	(C) lodine deficiency			(D) Enzyme deficiency
79.	A human hormone redu (A) Thyroxin	ucing blood flow to the dig (B) Adrenaline	gestive system and skin o (C) Growth hormone	during stress is (D) Insulin
80.	Hormone associated w (A) Testosterone	ith gonads (B) Estrogen	(C) Auxin	(D) Both (A) and (B)
81.	Name the hormone white (A) Adrenaline	ch controls the basal me (B) Thyroxine	tabolic rate in animals (C) Aldosterone	(D) Oxytocin
82.	${(A) \text{ Pineal}}$ is responsible	for maintaining biologica (B) Kidney	l clock of body (C) Thyroid	(D) Adrenal
83.	Deficiency ofca (A) GH	use dwarfism (B) FSH	(C) LH	(D) All of these
84.	A person consuming set (A) Diabetese	ea food is least likely to d (B) Goiter	evelop (C) Both A and B	(D) Heart Diseases
85.	A patient of diabetes is (A) Insulin	not producing (B) Thyroxin	(C) Oestrogen	(D) Adrenaline
86.	Growth hormone is pro (A) Adrenal	duced by (B) Pituitary	(C) Pancreas	(D) Thyroid
87.	Which of the following (A) Adrenal	gland is unpaired? (B) Testis	(C) Pituitary	(D) Ovary
88.	Which of the following i (A) Prolactin	s commonly known as 'b (B) Oxytocin	irth hormone'? (C) ADH	(D) FSH



1. C	2. D	3. C	4. A	5. B
6. A	7. D	8. A	9. A	10. B
11. B	12. A	13. C	14. B	15. A
16. A	17. D	18. B	19. B	20. A
21. B	22. C	23. A	24. A	25. B
26. D	27. D	28. D	29. D	30. C
31. B	32. C	33. D	34. B	35. A
36. D	37. C	38. A	39. A	40. C
41. D	42. B	43. D	44. C	45. D
46. B	47. D	48. A	49. D	50. A
51. B	52. D	53. D	54. B	55. B
56. B	57. C	58. B	59. B	60. A
61. C	62. C	63. C	64. B	65. C
66. B	67. B	68. B	69. D	70. C
71. C	72. C	73. B	74. C	75. D
76. C	77. C	78. A	79. B	80. D
81. C	82. A	83. A	84. B	85. A
86. B	87. C	88. B		