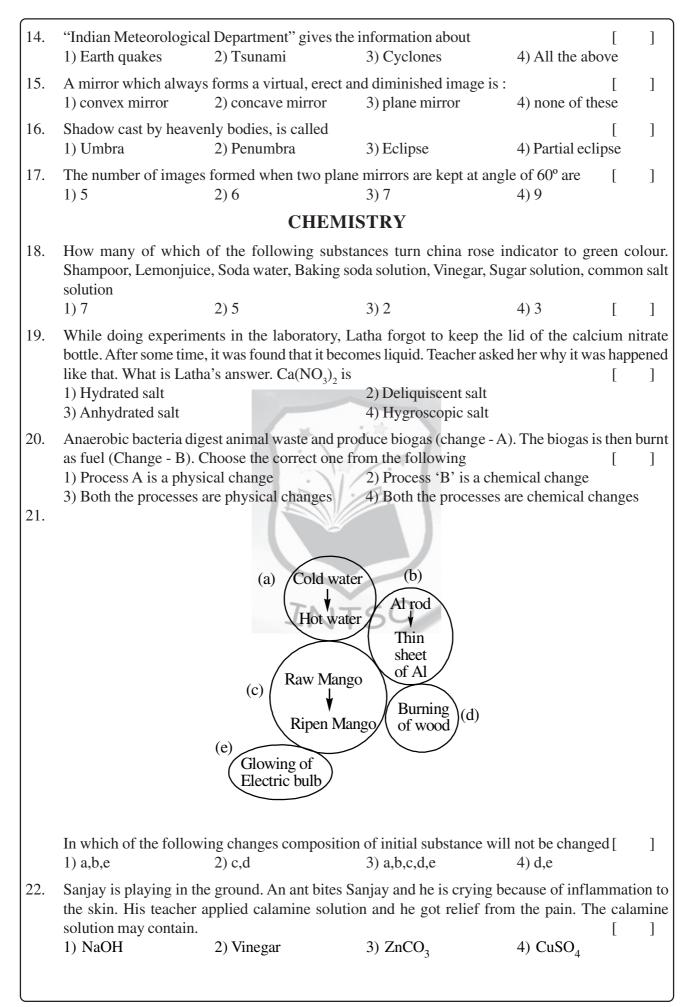
	SCIENC	SOE] CE TALENT SEAR			
	ITSO SS:VII	STAG	E - 2	TIME Max. Marks	: 60 min. : 50
Inst	ructions:				
17 17 17	Each question carri deducted for indicat	completely and carefully es one mark and has only ting incorrect response of contains 50 questions to	y one correct answer. ½ f each question.		arks will b
		PHYS	SICS		
1.	The speedometer of a 1) Average speed	vehicle gives us 2) Instantaneous speed	d 3) Initial speed	4) Final spee	[] ed
2.	In a cycle race, the cycle rac	elist covers a distance of 1	10 km in 5 minutes then	the average spe	ed of cyclis []
	1) 2 km/h	2) 60 km/h	3) 100 km/h	4) 120 km/h	
3.	A beam balance is use 1) force	ed to measure : 2) mass	3) weight	4) density	[]
4.	A person sitting in a r 1) trees	noving bus is at rest with 2) fields	n respect to 3) buildings	4) other pass	[] sengers.
5.	The approximate leng 1) 10 cm	th of second's pendulum 2) 100 cm	1 is 3) 10 mm	4) 100 mm	[]
6.	Water boils at 1) 100 °C	2) 0 °C	3) 120 °C	4) –100 °C	[]
7.	The device used to me 1) Calorimeter	easure the temperature o 2) Thermometer		4) Magnetor	[] neter
8.		eter cannot be used for n t 2) lower boiling point	0 0 1	tures because 4) less abund	[] dance
9.	The normal temperatu 1) 30 °C	are of a human body in c 2) 37 °C	elsius scale is 3) 42 °C	4) 0 °C	[]
10.	Electric energy suppli 1) voltmeter	ed to homes is measured 2) ammeter	l by 3) galvanometer	4) kilowatt-ł	[] nour meter
11.	Among the following 1) Copper	, example to the insulato 2) Aluminium	r is 3) Alcohol	4) Brass	[]
12.	Fuse wire is an alloy (1) copper and lead	of 2) Iron and tin	3) tin and lead	4) copper an	[] d iron
13.		cted as shown in figure, the second		· •••	[]



			Cha	nges					
		Physical change			Chemical change				
	Exother $\Delta H =$ (X)	$-ve \qquad \Delta H$	thermic = +ve Y)		ermic = - <i>ve</i> Z)		ndothermic $\Delta H = +ve$ (W)		
23.	$\Delta H = -ve \text{ means end}$ Preparation of food b	y green plants		nder wh	ich of				
24.	1) X2) Y3) Z4) WWhich of the following changes comes under the category Z1) lighting of bulb2) volcanic erruption3) Formation of ice from water4) sublimation of camphor							[
25.	Dissolution of glucose in water comes under which of the following category 1) X 2) Y 3) Z 4) W							[
26.	Weather changes 1) week after week 3) with in a shortperio	od			ay afte any c		above time period	[-
27.	b) Very hot and wet c								
	Choose the correct m	atch from the f	ollowing					[
	a b c		U		a	b	c		
	1) q r p 3) p q r			2) 4)	q r	p p	r q		
28.	Weather conditions d 1) Oceans 3) Location of place of	-			tmosp ll of tł			[-
29.	 3) Location of place on the earth 2 Mg + O₂ → X <u>H₂O</u> Y. On addition of red cabbage juice to the solution Y. What change is observed 1) Colour of the solution changes to green 2) This change is same as the change observed when red cabbage juice is added to c 3) Solution Y is acidic in nature 4) All the above 								-

	Base							Found in []]	
	a) Ca (OH) ₂ p						p)	Milk of magnesia						
	b)	NH_4	ΟН				q)	Soaj	р					
	c)	KOł	Η				r)	Lim	e wate	er				
	d)	Mg	$(OH)_2$				s)	Win	dow c	leaner	•			
		a	b	c	d			a	b	c	d			
	1)	r	S	р	q		2)	S	q	р	r			
	3)	r	S	q	р		4)	q	r	S	р			
31.	Plac	e A =	Vizag,	,	B = Vijayaw	ada,	C =	Hyde	rabad					
		decrea > B >	-	order	of rate of rustin 2) $A > B > C$	-	•	ts in th $B > A >$		ve mei	ntioned pl 4) $A > 0$		[]
32.		ch of t digest		lowin	g is not an appl 2) Soil treatm			alistai actory		•	ife 4) Acid	rains	[]
	Bas	ed on 1	the fo	llowi	ng diagram ar	nswer the	e anes	tions ((16 an	d 17)	,			
						Ca(OI		<u>0</u> 0						
22		. • .1					-				• . •		r	1
33.		nt is the		non n	ame of the main 2) Lime		forme	ed in th		ve exp	erimental 4) Slake	-	-]
33. 34.	1) L	ime wa	ater		2) Lime	n product	forme 3) L	ime st	one	1	4) Slake	ed lime	2	-
	1) L Volu expe	ime wa ime of erimen	ater the ga	is at S	2) Lime TP in lit require ht test tube) is	n product	forme 3) L luce 5(time st Og of tl	one he mai	1	4) Slake luct produ	ed lime	2	-
	1) L Volu expe	ime wa	ater the ga	is at S	2) Lime TP in lit require	n product ed to proc	forme 3) L luce 50 3) 1	ime st)g of tl 1.2 lit	one he mai	1	4) Slake	ed lime	2	-
34.	1) L Volu expe 1) 22	ime wa ime of erimen 2.4 lit	ater the ga t (in t	is at S he rig	2) Lime TP in lit require ht test tube) is 2) 1 lit	n product ed to proc BIOL	forme 3) L luce 5(3) 1 OGY	ime st Dg of tl 1.2 lit	one he mai	n proc	4) Slake luct produ 4) 44.8	ed lime aced in lit	the a	above]
	1) L Volu expe 1) 22 Whi	ime wa ime of erimen 2.4 lit ch of t	ater the ga t (in ti he fol	is at S he rig lowin	2) Lime TP in lit require ht test tube) is 2) 1 lit g mineral ions	n product ed to proc BIOL	forme 3) L luce 5(3) 1 OGY	ime st Dg of tl 1.2 lit	one he mai	n proc	4) Slake luct produ 4) 44.8	ed lime aced in lit	the a	above] n anc
34.	1) L Volu expe 1) 22 Whi nerv I) So V) H	ime wa ime of erimen 2.4 lit ch of t e impu odium Phosph	ater the ga t (in t he fol ulse tra	as at S he rig lowin ansmi	2) Lime TP in lit require ht test tube) is 2) 1 lit g mineral ions ssion II) Potassium VI) Magnesi	n product ed to proc BIOL present i	forme 3) L luce 5(3) 1 OGY n the f	ime st Dg of tl 1.2 lit	one he mai re esse	n proc	4) Slake luct produ 4) 44.8	ed lime aced in lit contra	the a	above]
34.	1) L Volu expe 1) 22 Whi nerv I) So V) H Corr	ime wa ime of crimen 2.4 lit ch of t e impu odium	ater the ga t (in t he fol ulse tra	as at S he rig lowin ansmi	2) Lime TP in lit require ht test tube) is 2) 1 lit g mineral ions ssion II) Potassium VI) Magnesi	n product ed to proc BIOL present i	forme 3) L luce 5(3) 1 OGY n the f III)	ime st Og of tl 1.2 lit	one he mai re esse	n proc	4) Slake luct produ 4) 44.8 for muscle	ed lime aced in lit contra	the a	above] n anc
34.	1) L Volu expe 1) 22 Whi nerv I) So V) H Com 1) I, Whi I) Tr III) I	ime wa ume of erimen 2.4 lit ch of t e impu odium Phosph Phosph rect set V, VI ch of t ranspor Mainta	ater the ga t (in the she fol ulse trans torous t from he fol rt of su uins bo	ls at S he rig lowin unsmi the al lowin ubstar	2) Lime TP in lit require ht test tube) is 2) 1 lit g mineral ions ssion II) Potassium VI) Magnesi bove 2) I, II, III g are the funciture cmperature	n product ed to proc BIOL present i	forme 3) L luce 5(3) 1 OGY n the f III) 3) I ater in II) V	ime st Dg of tl 1.2 lit Good ar Calciu & III	one ne mai re esse m ody remova	n proc	4) Slake luct produ 4) 44.8 for muscle IV) Iror	ed lime aced in lit contra	the a	above] n anc
34. 35.	1) L Volu expe 1) 22 Whii nerv I) So V) F Corr 1) I, Whii I) Tr III) I Corr	ime wa ime of erimen 2.4 lit ch of t e impu odium Phosph rect set V, VI ch of t ranspor	ater the ga t (in the she fol ulse trans torous t from he fol rt of su uins bo	ls at S he rig lowin unsmi the al lowin ubstar	2) Lime TP in lit require ht test tube) is 2) 1 lit g mineral ions ssion II) Potassium VI) Magnesi bove 2) I, II, III g are the funciture cmperature	n product ed to proc BIOL present i	forme 3) L luce 5(3) 1 OGY n the f III) 3) I ater in II) V IV)	ime st Og of tl 1.2 lit Cood ar Calciu & III our be Waste 1	one ne mai re esse m ody remova	n proc	4) Slake luct produ 4) 44.8 for muscle IV) Iror	ed lime aced in lit contra	the a	above] n and]
34. 35.	 L Volu expectation V) I Control I) I Whit I) Tr III) I Control I) I III) I Iodia are t 	ime wa ume of erimen 2.4 lit ch of t e impu odium Phosph Phosph Phosph Phosph Ch of t anspor Mainta rect sta & IV ne is an he sou	ater the ga t (in the he fol ilse tra orous t from he fol rt of su ins bo temen n impor	lowin ansmi the al lowin ubstar ody ten ts are ortant f this	2) Lime TP in lit require ht test tube) is 2) 1 lit g mineral ions ssion II) Potassium VI) Magnesi bove 2) I, II, III g are the funcit nces	n product ed to proc BIOL present i um tons of w	forme 3) L luce 5(3) 1 OGY n the f III) 3) I ater in II) V IV) 3) I	ime st Og of tl 1.2 lit cood ar Calciu & III our be Vaste 1 Digest	one he mai re esse m ody remova tion	n proc ntial f al	 4) Slake 4) duct produte 4) 44.8 for muscle IV) Iron 4) I, V, I 4) I, II, F 	ed lime aced in lit contra MII	the a [actio	above] n and]

38.	Silk plantation is mainl 1) Khammam	y concentrated in the fol 2) Adilabad	lowing regions, except 3) Ananthpur	4) Warangal	[]			
39.	The number of eggs lai 1) 300	d by female moth at one 2) 5000	time are 3) 500	4) 3000	[]			
40.	Removal of grease, dirt 1) Bleaching	and dust from wool is c 2) Scouring	called 3) Spinning	4) Shearing	[]			
41.	Cuscuta takes food from the plant on which it is climbing. This mode of nutriheterotrophic nutrition. This plant has special roots called \underline{X} which penetrate in to \underline{Y} and absorb food from it								
	X and Y represent 1) X - Hypae Y - Epith 3) X - Root hairs Y - M		 2) X - haustoria Y - vas 4) X - haustoria Y - car 						
42.	Read the following				[]			
	I) Lichens represents sy	mbiotic relation betwee	n algae and fungi						
	II) Fungus gives protec	tion for algal partner							
	III) It is an example of t	palanced parasitism							
	IV) Lichens do not grow	v in polluted area, hence t	they can be considered as	s an indicaters o	f pollu	ition			
	Correct statements are 1) I & II	2) I, II, III	3) I, II, IV	4) I, II, III, IV					
43.	Which of the following 1) Stephan Hales	scientist described leaf 2) Priestley	as an organ of respiratio 3) Ingenhouz	n 4) Von Helmo	[ont]			
44.	The amount of oxygen 1) 0.4 & 40 ml	present in inhaled and e 2) 210 & 165 ml	xhaled air respectively 3) 210 & 65 ml	4) 200 & 20 n	[nl]			
45.	Find the odd one regard 1) Earthworm	ling respiration 2) Leech	3) Tad pole	4) Frog	[]			
46.	Structural and function 1) Bronchi	al units of lungs are 2) Bronchioles	3) Alveoli	4) Nephrons	[]			
47.	Find the incorrect pair 1) Incomplete flower : (3) Unisexual flower : Ij		2) Complete flower : D4) Bisexual flower : Pe		[]			
48.	Site of germination of p 1) Stigma	oollengrain on the flower 2) Style	r is 3) Pistil	4) Ovary	[]			
49.	 2nd male nuclie fuses with X present at the centre of Y ; Fuses with it and form as Z X, Y & Z represents 1) X - secondary nucleus Y - Embryosac and Z - Endosperm 2) X - Egg, Y - Ovary and Z - Zygote 3) X - Plar nuclei, Y - Embryosac and Z - Zygote 4) X - Synergids, Y - Ovary and Z - Endosperm 								
50.	Find the correct one				[]			
	Dahlia : root : Sugar ca 1) Root	ne : ? 2) Stem	3) Leaf	4) Corm					
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