

INTSO EDUCATION

SCIENCE TALENT SEARCH OLYMPIAD (STSO) 2015-16

STAGE - 1 TIME

: 60 min.

CLASS: V Max. Marks : 50

•	4	4	•	
In	str	uct	ion	IS:

1) 10^6 cc

1) Magnetic

1) Mechanical to Heat energy

3) Heat to Mechanical energy

12.

13.

- *⇒ Fill the OMR sheet completely and carefully.*
- *Each question carries one mark and has only one correct answer. No negative marks*

PHYSICS

The question paper contains 50 questions to be answered in 60 minutes.

1.	1) Centimetre	ng is the smallest, standa 2) Metre	3) Kilometre	4) Millimetre
2.	1 acre =	,	3) Knometie	T 1
2.	1) 4046	2) 4460	3) 4600	4) 5026
3.	The force applied on 1) Contact	moon by the earth is cal 2) Non contact	led force 3) Frictional	[] 4) Mechanical
4.	The area of leaf is me 1) Scale	asured by using 2) Thread	3) Graph paper	[] 4) Burette
5.	The unseen force whi	ch opposes the motion of	of object when it moves	on the other body is called
	1) Magnetic	2) Friction	3) Mechanical	4) Gravitational
6.	Volume of a cube is call. Two times	alculated by multiplying 2) Four times	(its side 3) Three times	[] 4) One time
7.	A stored energy is call 1) Potential	lled energy 2) Kinetic	3) Both 1 and 2	[] 4) None of these
8.	Force can be measure 1) kg	ed in 2) newton	3) meter	[] 4) joule
9.	Example for bodies p 1) Water stored in a d 3) A rolling rock	ossessing Potential energam	gy ———— 2) Flowing water 4) A moving train	[]
10.	A kite flying in air ha 1) Only potential ener 3) Both kinetic and po	gy	2) Only kinetic energy4) Neither potential no	
11.	One cubic metre is eq	ual to :		[]

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 $2) 10^4 \text{ cc}$

2) Heat

The energy transformation in lighting a match stick is from

When we rub our palms vigorously ———— energy is produced

 $3)\ 10^9\ cc$

3) Gravitational

2) Potential to Kinetic energy

4) Light to Heat energy

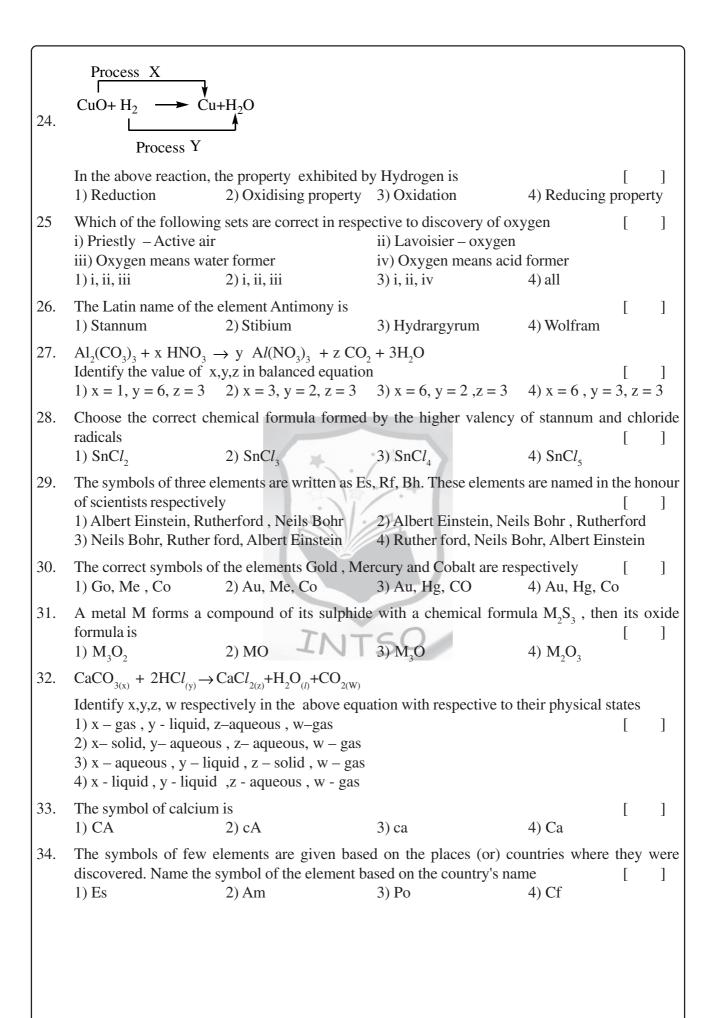
4) 10^3 cc

4) Any of these

1

1

14.	Simple pendulum is us 1) Time	ed to measure 2) Length	3) Temperature	4) Force	[]
15.	A moving train is an ex 1) Potential energy	cample of possessing 2) Kinetic energy	3) Chemical energy	4) Nuclear en	[ergy]
16.	The gap between two 6 1) Length	events is called : 2) Time	3) Area	4) Volume	[]
		CHEMI	STRY			
17.			ent in the universe but in f hydrogen of earth's we 3) 0.09%		st it is [the]
18.	The isotope of hydrog 1) Protium	en which is used in nuc. 2) Deuterium	lear reactors in the form 3) Tritium	of heavy water 4) all	is []
19.	Hydrogen gas can be pr 1) Cathode 3) top of electrolytic ce		f acidified water. The Hy 2) Anode 4) all	ydrogen gas is c	ollecte [ed at
20.	Observe the experimen	tal diagram carefully.				
	Zinc gr. Dilute Hydrochloric acid	00 000	water	gas X Gas Jar Beehive sh	elf	
	Name the method which 1) Upward displaceme 3) Upward displaceme		X 2) Downward displace 4) Downward displace		[]
21.	$2KClO_3 \xrightarrow{\Delta} 2KClO_3 \xrightarrow{MnO_2} 2KClO_3 $	with respective to X is /	are 3) ii,iii only	4) i,iii only	[]
22.	•	icial respiration in the for 6 of oxygen	rm of carbogen in hospita 2) 95% carbon dioxide 4) 95% oxygen and 5%	ls, carbogen is a e and 5% oxyge	en[re of
23.	The boiling point of lice 1) 253°C	uid hydrogen is 2) –100°C	3) -10°C	4) –253°C	[]



		BIOL	OGY	11		
35.	Picture of flower Pistil is represented by 1) P, Q, R 2) R, S, T	3) S, T, U 4) P, R, S	ann.	R S P	[]
36.	Pollengrains are produ 1) Stigma	nced on 2) Style	3) Anther	4) Sepal	[]
37.	Plants pollinated by w 1) Large flowers 3) Do not produce pol	-	2) Small flowers4) Heavy flowers		[]
38.	1) Fertilisation → Emb 2) Fertilisation → Zyg 3) Zygote → Fertilisat	g represents the life cyc $yyo \rightarrow Zygote \rightarrow Seed$ - $yyo \rightarrow Seed$ - $yyo \rightarrow Seed$ - $yyo \rightarrow Seed$ $yyo \rightarrow Seed$ $yyo \rightarrow Seed$	→ Plant → New plant → New plant		[]
39.	Name of the plant	Part producing new	plant		[]
	 Potato Carrot Bryophyllum 	P Root R	· *			
	P & R are from the about 1) Root & Stem	ove table are respective 2) Stem & Leaf	ly 3) Root & Leaf	4) Root & Fl	ower	
40.	Which of the followin 1) Layering 3) Cutting	g method you will selec	et to produce more ros 2) Grafting 4) Tissue culture	se plants in your ga	arden []
41.	The following table shStrong legsSharp eye slight	dows the adaptions of ardood sense of smdouble Body colour mate			[]
	Identify the animal what 1) Camel	nich shows above adapt 2) Bear	ions 3) Deer	4) Yak		
42.	Hump of the camel sto 1) Proteins	ores 2) Carbohydrates	3) Fats	4) All the abo	[ove]
43.	Which of the followin 1) Polar bear	g animals have more Ri 2) Penguin	BC to obtain more ox 3) Yak	ygen from the air 4) Camel	[]
44.	Which of the followin 1) Streamlined body	g is not an adaptation of 2) Presence of Fins	f fish 3) Presence of trace	hea 4) Presence o	[of scale] es
45.	Seeds with hooks or sp 1) Birds & animals	pines will disperse by 2) Wind	3) Explosion	4) Water	[]
46.	Seeds of dandelion & 1) Birds & animals	milkweed disperse by 2) Wind	3) Water	4) Explosion	[]
47.	This mechanism of dis 1) Blowing 2) Bursting 3) Blooming 4) Explosion	spersal is		J	[]

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48.	List of seeds are given in this table				[]
	Cashew	Wheat				
	 Ground nut 	Mango				
	• Rice	• Bean				
	Maize					
	Identify the seeds with single cotyledon					
	1) Groundnut & Mango		2) Rice & Cashew			
	3) Maize & Wheat		4) Bean & Mango			
49.	Which part of a germinating seed gives leaves				[]
	1) Radicle	2) Cotyledon	3) Seed coat	4) Plumula		
50.	Pollengrains produce, pollentube when they fall on				[]
	1) Style	2) Anther	3) Ovary	4) Stigma		





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