

## **INTSO EDUCATION**

SCIENCE TALENT SEARCH OLYMPIAD (STSO) 2016-17

## **CLASS : VII**

STAGE - 1

TIME : 60 min. Max. Marks : 50

- **Instructions:**
- ₽ Fill the OMR sheet completely and carefully.
- ∽ Each question carries one mark and has only one correct answer. No negative marks
- ∽ The question paper contains 50 questions to be answered in 60 minutes.

## PHYSICS

1.	The temperature, at which centigrade thermometer and kelvin thermometer give the same real is					ding. ]	
	1) 4°	2) 273°	3) 0°	4) Not possib	le		
2.	The angle between inc. 1) 30°	ident ray and reflected ra 2) 35°	ay is 70°. What will the 3) 40°	incident angle 4) All the abo	[ ve	]	
3.	Which of the following 1) plastic plate	g is the best reflector of 1 2) plane mirror	ight 3) wall	4) paper	[	]	
4.	A body moving with a A) constant speed 1) A, B are correct	constant velocity will h B) constant acceleratio 2) B,C are correct	ave nC) zero speed 3) A, D are correct	D) zero accele 4) Only 'D' is	[ eration corre	] n ect	
5.	Among the following t 1) 100K	emperatures, the highest $2) - 13^{\circ}F$	t is 3) – 20 °C	4) – 23 °C	[	]	
6.	The scale of temperatu 1) Celsius	re independent on therm 2) Fahrenheit	al properties of a substa 3) Kelvin	nce is 4) Rankine sc	[ ale	]	
7.	A passenger train of 10 cross a bridge of length 1) 20 s	00 m long is moving wit n 500 m is 2) 16 s	th a uniform velocity 90 3) 24 s	kmph. The tim 4) 4 s	ne tak [	en to ]	
8.	The mirror to be used t 1) Plane mirror	to obtain a parallel beam 2) convex mirror	of light from a small lar 3) concave mirror	np is 4) all	[	]	
9.	A man of height 6 ft observes his image to be 4 ft height and erect, then the mirror used is						
	1) Concave	2) Convex	3) Plane	4) All	[	]	
10.	The battery cells in the 1) series 3) neither series nor par	torchlight are kept in rallel	2) parallel 4) none		[	]	
11.	Identify the correct rela	ations for the following			[	]	
	i) speed = $\frac{\text{distance}}{\text{time}}$	ii) time = $\frac{\text{speed}}{\text{distance}}$	iii) time = $\frac{\text{distance}}{\text{speed}}$	iv) distance =	spee time	<u>d</u> ?	
	1) i, iii are correct	2) ii, iv are correct	3) i, iv are correct	4) all the above	/e		
12.	A runner runs 100 m in his average speed (in n	10 s, then turns around j n/s)	ogs 50 m backward the s	tarting point in	30s .' [	Гhen ]	
	1) 1.25	2) 2.5	3) 3.75	4) 4			
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13. Match the following :	[	]		
Column - I Column - II				
i) Thermometer p) instantaneous speed				
ii) Anemo meter q) wind speed				
iii) Barometer r) temperature				
1v) Speedo meter     s) atmospheric pressure       1v:				
$\begin{array}{c} 1 ) 1 - r, 11 - q, 111 - p, 1V - s \\ 2 ) 1 - r, 11 - p, 111 - q, 1V - s \\ 4 ) 1 - r, 11 - p, 11 - q, 1V - s \\ 4 ) 1 - r, 11 - q, 1V - s \\ 4 ) 1 - r, 11 - q, 1V - s \\ 4 ) 1 - r, 11 - q, 1V - s \\ 4 + r, 11 - q, 11 - q, 1V - s \\ 4 + r, 11 - q, 1V - s \\ 4 + r, 11 - q, 11 - q, 1$				
3) 1 - r, 11 - q, 111 - s, 1V - p				
<ul> <li>14. Identify the correct statements</li> <li>Statement (A) : The device used to close (or) open an electric circuit is switch</li> <li>Statement(B) : In series circuit the electricity has only one path.</li> <li>Statement(C) : Safety device used in electric circuit is fuse</li> <li>1) A, B, C are true 2) Only A, B are true 3) Only A, C are true 4) None</li> </ul>	[	]		
15. Suppose in a house there are two bulbs of 40 w each, two fans of 100w each. All of for two hours a day. Find the cost of electric energy used in 30 days at Rs 3.00 pe	f them are r unit.	used		
1) 50.4 Rs 2) 504 Rs 3) 25.2 Rs 4) 252 Rs	S [			
16. If the reflecting surface is convex, then it is called as mirror1) convex2) concave3) plane4) all	[	]		
17. The number of images increases when we the angle between two mirrors	[	]		
1) increase 2) reduce	-	-		
3) either increases (or) decrease 4) none				
CHEMISTRY				
$CuSO_4 + Zn \rightarrow ZnSO_4 + Cu$ The type of the reaction is	Г	1		
10.(Blue)(colourless)(Red). The type of the reaction is1) chemical combination2) chemical decomposition3) chemical displacement4) chemical double decomposition	n	]		
19. Which of the following is the correct equation for precipitation reaction	[	]		
1) $H_2SO_4 + 2NaOH \rightarrow Na_2SO_4 + H_2O_4 - 2) AgNO_3 + NaCl \rightarrow AgCl \downarrow +$	NaNO <sub>3</sub>			
3) $C_{2}O_{+}HO_{-}$ $C_{2}O_{+}HO_{-}$ $C_{2}O_{+}O_{-}heat$ $C_{2}O_{+}CO_{-}heat$ $C_{2}O_{+}heat$ $C$	5			
$(0.1)_2 \rightarrow Ca(0.1)_2 \rightarrow Ca(0.1$				
20. Strong acids have a $p^{H}$ scale of1) $0 - 7$ 2) $6 - 8$ 3) $11 - 15$ 4) $0 - 4$	[	]		
Mrs. Veena set up two beakers that contain the same amount of water, she has two blocks different materials that the labels "A" and "B" she places one block in each beaker, block A sir and block B floats why? [ 1) Block A has a lower density than the water 2) Block B has a higher density than the water 3) Block A has a higher density than the water 4) Block A has a density equal to Block B				
22. Methyl orange is	ſ	1		
<ol> <li>Red in acidic medium, yellow in basic medium</li> <li>yellow in acidic medium, red in basic medium</li> <li>colourless in acidic medium, red in basic medium</li> <li>red in acidic medium, colourless in basic medium</li> </ol>	-	L		
23. Aluminium oxide is	Г	1		
23. Aluminium oxide is 1) acidic nature2) basic nature3) amphoteric nature4) neutral	[	]		
<ul> <li>23. Aluminium oxide is <ol> <li>acidic nature</li> <li>basic nature</li> <li>basic nature</li> <li>amphoteric nature</li> <li>neutral</li> </ol> </li> <li>24. Household products such as window cleaners contains <ol> <li>Ca(OH)</li> <li>2) Mg(OH)</li> <li>3) NaOH</li> </ol> </li> </ul>	[ [ H	] ]		

25.	Alloy of German silver constituents are2) Cu 75 - 90%, & Sn 10 - 25%3) Cu 56%, Zn 24%, Ni 20%4) Pb 82%, Sb 15%, Sn - 3%			[	]			
26.	The Nucleus of an ato 1) Electrons & Neutro 3) Protons & Neutrons	m consists of ns s	<ul><li>2) Electrons &amp; Protons</li><li>4) All of the above</li></ul>		[	]		
27.	The mass of one molect 1) 1g	cule of water is approxim 2) 0.5g	nately 3) $1.66 \times 10^{-24}$ g	4) $3 \times 10^{-23}$ g	[	]		
28.	What compounds of fl dental cavities 1) Calcium fluoride & 3) Sodium fluoride &	uorine are added to tootl Argentous fluoride Stannous fluoride	hpaste to prevent dental o 2) Zinc fluoride & Mer 4) Magnesium fluoride	decays formatic curous fluoride & Aurous fluo	on of [ ride	]		
29.	The chemical formula 1) $Na_2CO_3$ , $10H_2O$	of washing soda is 2) NaHCO <sub>3</sub>	3) CaCO <sub>3</sub>	4) NOOH	[	]		
30.	Ant releases this acid _ 1) Citric acid	2) Formic acid	3) Lactic acid	4) Oxalic acid	]	]		
31.	The chemical formula 1) Ca(OH) <sub>2</sub>	of calcium carbonate 2) CaCO <sub>3</sub>	3) CO <sub>2</sub>	4) CaSO <sub>4</sub>	]	]		
32.	Hydorgen gas is disco 1) Henry cavendish	vered by 2) Lavoiser	3) Mosley	4) Rutherford	]	]		
33.	Hydrated copper sulph 1) Green vitriol	ate is commonly called 2) Blue vitriol	3) White vitriol	4) None of the	[ ese	]		
34.	A solution reacts with 1) HNO <sub>3</sub>	egg shell it releases CC 2) NaCl	$D_2$ gas 3) Mg (OH) <sub>2</sub>	4) KC <i>l</i>	[	]		
	BIOLOGY							
35.	A person has boiled a 1) Cellulose	potato, it contains the fo 2) Lactose	llowing food component 3) Glucose	4) Starch	[	]		
36.	Ramu became very weak and lean and doctor advised him to take specially more meanily and eggs in his diet. What may be the disease that ramu is suffering from1) Rickets2) Kwashiorkor3) Anaemia4) Muscle tren				eat, lei [ nors	ntils, ]		
37.	I am a micronutrient pr in body. 'I' also helps i 1) Vitamin Calciferol 3) Vitamin Retinol	resent in fresh fruits and w n collagen formation. W	vegetables, I am heat sens 'ho am 'I' 2) Mineral phosphorus 4) Vitamin Ascorbic ac	itive and can no id	t be st [	tored ]		
38.	Study the following List - I (i) Roughages (ii) Carbohydrates (iii) Vitamins (iv) Proteins (v) Fats Match the correct com 1) i - 3, ii - 1, iii - 4, iv 3) i - 5, ii - 2, iii - 4, iv	bination - 5, v - 2 - 3, v - 1	List - II 1) Instant energy givin 2) Energy giving foods 3) Bulk forming food 4) Micro-nutrients 5) Body building 2) i - 2, ii - 1, iii - 4, iv 4) i - 3, ii - 5, iii - 1, iv	g foods - 5, v - 3 - 4, v - 2	[	]		

1) i - age, ii - need, iii - growing children, iv - adolescents, v - milk, vi - meat/pulses, vii - vitamins, viii - minerals.2) i - need, ii - requirement, iii - adolescents, iv - growing children, v - meat, vi - nuts, vii - water, viii - roughages 3) i - age, ii - need, iii - growing children, iv - adolts, v - egg, vi - oils, vii - minerals, viii - water 4) i - age, ii - need, iii - growing children, iv - adolescents, v - milk, vi - meat/pulses, vii - vitamins, viii - water40. The entire process of silk production starting from growing on mulberry plants, collection of eggs, rearing of caterpillars, production of cocoons and finally obtaining raw silk fibre is called as 1) Sericulture13) Selvi culture2) Apiculture11) Shearing2) Bleaching3) Wool classing 4) Scouring2) Woolen threads in power looms that go side to side and top to bottom are respectively called 1) Warp threads; Warp threads2) Weft threads; Kurting threads43. In which of the following silk is used 1. In Textile industry 1) 1, II, III2) 1, IV only3) 1, III, IV44. The shining appearance of silk fibres 3) Smooth quality of silk fibres 3) Snooth quality of silk fibres 3) I, VI, IX, VI, III, IV, VIII, IX, X 4) I, IX, VII, VIII, IV, III, VIII, IV, VII, VX 3) I, VI, IX, VII, III, IV, VIII, XX 4) The intermal factors of photosynthesis are 1) Glucose, Oxygen 3) Chlorophyll, Oxygen140. Stephen Hales described about the leaves as organs of 1) Respiration 2) Transpiration 3) Eiphyte141. The spiration 2) Transpiration 2) Complete parasite 3) Eiphyte <th>39.</th> <th colspan="4">We require different quantities of carbohydrates, proteins, fats according to (i) and (ii) of individu- als (iii) and (iv) need more proteins containing food like (v),(vi). We also need minute quantities of food components like (vii), (viii) to keep us healthy. [] Identify i to viii respectively.</th> <th>/idu- tities ]</th>	39.	We require different quantities of carbohydrates, proteins, fats according to (i) and (ii) of individu- als (iii) and (iv) need more proteins containing food like (v),(vi). We also need minute quantities of food components like (vii), (viii) to keep us healthy. [] Identify i to viii respectively.				/idu- tities ]
VIII - water.40. The entire process of silk production starting from growing on mulberry plants, collection of eggs, rearing of caterpillars, production of cocoons and finally obtaining raw silk fibre is called as 1) Sericulture13) Selvi culture2) Apiculture141. Separation of unwanted materials from wool is called[]]42. Woolen threads in power looms that go side to side and top to bottom are respectively called 1) Warp threads; Weft threads2) Weft threads; Warp threads43. In which of the following silk is used I. In Textile industry[]]44. The shining appearance of silk is used 1) I, II, III2) I, IV only45. Arrange the following silk is ouse[]]46. Arrange the following silk fibres2) Triangular prism like structure of silk fibres 3) Smooth quality of silk fibres45. Arrange the following steps of wool processing in correct order I. Shearing I. V. VII, VII, III, VII, II, VII, X VII, K VII, KOIling VIII. Weaving IX. Sorting X. Sorting X. Sorting X. Sorting X. Sorting X. Sorting X. Sorting 		<ol> <li>i - age, ii - need, iii - growing children, iv - ad viii - minerals.</li> <li>i - need, ii - requirement, iii - adolescents, iv viii - roughages</li> <li>i - age, ii - need, iii - growing children, iv - adolescents, iv - adol</li></ol>	dolescents, v - milk, vi - 1 v - growing children, v - adults, v - egg, vi - oils, blescents, v - milk, vi - n	meat/pulses, vii meat, vi - nuts, vii - minerals, v neat/pulses, vii	- vitan vii - w iii - w - vitan	nins, vater, ater nins,
41.Separation of unwanted materials from wool is called[1) Shearing2) Bleaching3) Wool classing4) Scouring42.Woolen threads in power looms that go side to side and top to bottom are respectively called1) Warp threads; Weft threads2) Weft threads; Warp threads[3) Knitting threads ; Warp threads2) Weft threads; Warp threads[]3) Knitting threads ; Warp threads4) Weft threads; Knitting threads[43.In which of the following silk is used[]I. In Textile industryII: In medicinal field[III. In fire extinguishersIV. In Aviation industry1) I, II, III2) I, IV only3) 1, III, IV44.The shining appearance of silk is due to[1) Soft, silky texture of silk fibres2) Triangular prism like structure of silk fibres3) Smooth quality of silk fibres2) Triangular prism like structure of silk fibres3) Smooth quality of silk fibres2) IV. RollingV. BeachingVI. ScouringV. BeachingVI. ScouringV. BeachingVI. ScouringV. I. KV, II, III, VIII, III, VII, X2) I, VI, IX, III, VIII, IV, VII, V, X3) I, VI, IX, V, II, III, VIII, VII, X4) I, IX, VII, VIII, IV, VII, V, X3) Chlorophyll, Oxygen2) Chlorophyll only3) Chlorophyll, Oxygen4) Water, Chlorophyl47.Stephen Hales described about the leaves as organs of	40.	viii - water. The entire process of silk production starting fr rearing of caterpillars, production of cocoons a 1) Sericulture 3) Selvi culture	om growing on mulberry and finally obtaining raw 2) Apiculture 4) Horti culture	/ plants, collecti / silk fibre is cal	on of e led as [	eggs, ]
42.       Woolen threads in power looms that go side to side and top to bottom are respectively called         1) Warp threads; Weft threads       2) Weft threads; Warp threads       []]         3) Knitting threads; Warp threads       2) Weft threads; Warp threads       []]         43.       In which of the following silk is used       []]         I. In Textile industry       II. In Textile industry       []]         III. In fire extinguishers       []]       II. In medicinal field       []]         1) Soft, silky texture of silk is due to       []]       []]       []]         1) Soft, silky texture of silk fibres       2) Triangular prism like structure of silk fibres       3) Smooth quality of silk fibres       4) The food taken by silk moth         45.       Arrange the following steps of wool processing in correct order       []]       []]         I. Scaring       II. VI, II, VI, VII, II, VII, IX, X       2) I, VI. Rolling       VIII. Weaving         IX. Sorting       X. Woolen fabric       1) I, VI, VI, II, III, VV, VII, VII, X       4) I, IX, VII, III, VV, VI, VI, X       3) I, VI, IX, VI, II, III, VII, IX, X       2) Chlorophyll only         3) Chlorophyll, Oxygen       4) Water, Chlorophyll       []]       1) Glucose, Oxygen       2) Chlorophyll only         3) Chlorophyll, Oxygen       3) H_2O       4) Chlorophyll       []]       1) Resp	41.	Separation of unwanted materials from wool is 1) Shearing 2) Bleaching	s called 3) Wool classing	4) Scouring	[	]
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48. Observe the following equation $6 \text{ CO}_2 + 12\text{H}_2\text{O} \xrightarrow{\text{light}}{\text{chlorophyll}} C_6\text{H}_1\text{O}_6 + 6\text{H}_2\text{O} + 6\text{O}_2$ In this, the O2 is formed from[]1) CO22) Light3) H2O49. Cuscuta is a[]1) Partial parasite2) Complete parasite3) Epiphyte4) Symbiont50. The opening and closing of stomata is controlled by[]1) Sun light2) Chloroplasts3) Guard cells4) Humidity	47.	Stephen Hales described about the leaves as o1) Respiration2) Transpiration	rgans of 3) Excretion	4) Photosynth	[ nesis	]
In this, the O <sub>2</sub> is formed from [ ] 1) CO <sub>2</sub> 2) Light 3) H <sub>2</sub> O 4) Chlorophyll 49. <i>Cuscuta</i> is a [ ] 1) Partial parasite 2) Complete parasite 3) Epiphyte 4) Symbiont 50. The opening and closing of stomata is controlled by [ ] 1) Sun light 2) Chloroplasts 3) Guard cells 4) Humidity	48.	Observe the following equation $6 \text{ CO}_2 + 12\text{ H}$	$H_2O \xrightarrow{light} C_6H_{12}$	$O_6 + 6H_2O + 6O_6$	<b>)</b> <sub>2</sub>	
49. Cuscuta is a[]]1) Partial parasite2) Complete parasite3) Epiphyte4) Symbiont50. The opening and closing of stomata is controlled by[]]1) Sun light2) Chloroplasts3) Guard cells4) Humidity		In this, the $O_2$ is formed from 1) $CO_2$ 2) Light	3) H <sub>2</sub> O	4) Chlorophy	[ 11	]
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