

INTSO EDUCATION

SCIENCE TALENT SEARCH OLYMPIAD (STSO) 2015-16

STAGE - 2 TIME

: 60 min.

CLASS: VI Max. Marks : 50

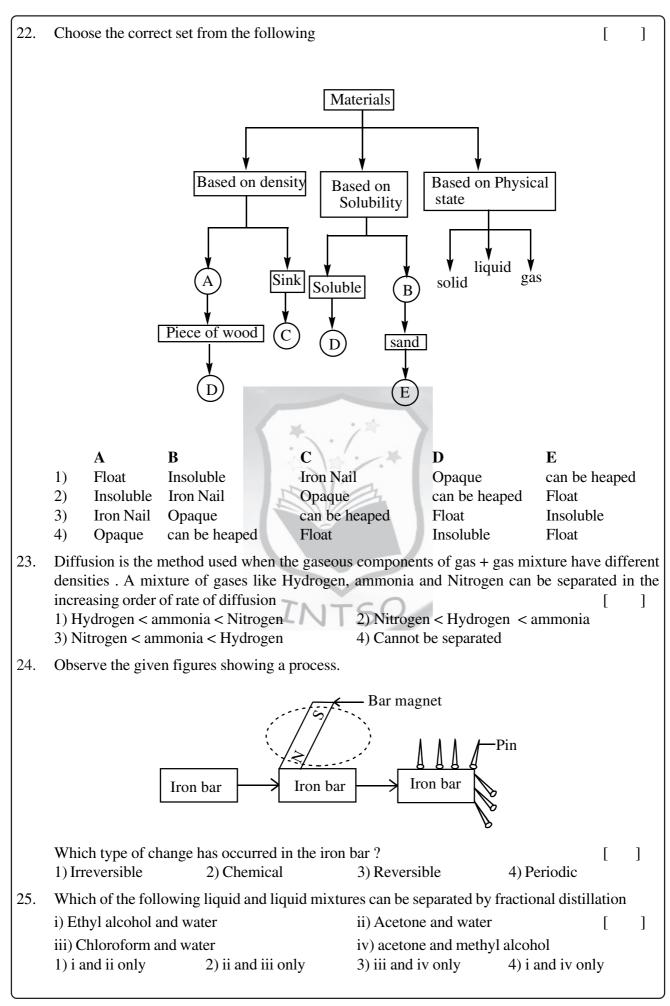
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- \Rightarrow Fill the OMR sheet completely and carefully.
- Each question carries one mark and has only one correct answer. 1/4 (one fourth) marks will be deducted for indicating incorrect response of each question.
- The question paper contains 50 questions to be answered in 60 minutes.

		PHYS	ICS			
1.	Making a magnetic subscontact is 1) magnetic induction is	stance like a magnet by but the stance like a magnet by the stance like a	ringing it closer to anothe 2) single touch method	r magnet withou	it phy: [sical]
	3) double touch method	d	4) electric method			
2.	The distance between t 1) length of magnet	he magnetic north pole a 2) magnetic equator	and the magnetic south p 3) effective length	ole is called 4) magnetic ax	[ais]
3.	The quantity of matter 1) mass	present in a body is called 2) weight	ed its 3) pressure	4) force	[]
4.	One quintal is equal to 1) 10	2) 100 kg	3) 1000	4) 10000	[]
5.	Among the following, 1) plastic	electric conductor is 2) pure water	3) wood	4) copper	[]
6.	is used to 1) bulb	make (or) break the elec 2) cell	tric circuit 3) switch	4) fuse	[]
7.	The length of rope is 5 1) 5 inch	feet, then its length in in 2) 15 inch	aches is 3) 30 inch	4) 60 inch	[]
8.	The symbol of square of 1) cm ²	centimetre is 2) Cm ²	$3) \text{ cM}^2$	4) CM ²	[]
9.	The speed of light in value $1) 3 \times 10^8$ km/s	acuum is $2) 3 \times 10^8 \text{ m/s}$	3) 3×10^8 mm/s	4) 3000 m/s	[]
10.	Among the following, 1) air	transparent substance is 2) paper	3) wood	4) stone	[]
11.	The image formed in p 1) small and inverted		3) small and erect	4) large and er	[ect]
12.	The percentage of methal 1) 10% to 20%	nane present in Biomass 2) 40% to 50%	is 3) 60% to 70%	4) 80% to 90%	[6]
13.	The following device v 1) Electric bulb	which converts electrical 2) Table fan	energy to kinetic energy 3) Loudspeaker	is 4) Heater	[]
14.	The ultimate source of 1) sun	energy is 2) coal	3) petroleum	4) wind	[]
I						

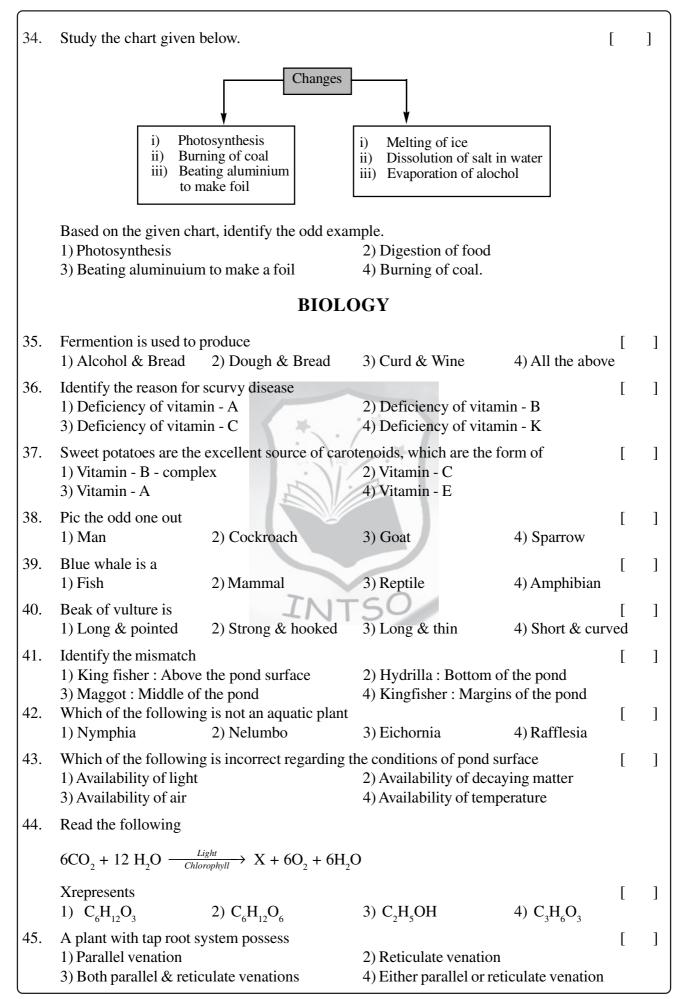
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15.	Among the following 1) aluminium	the substance which is a 2) steel	not attracted by the mag	gnet is 4) Iron	[]				
16.	discover 1) Magnus	red that there is magnetic 2) Newton	e field around current ca 3) Oersted	arrying wire. 4) Einstein	[]				
17.	The S.I. unit of work	is			ſ	1				
	1) second	b) kilogram	3) joule	4) newton		,				
		CHEM	ISTRY							
18.	18. Ramu is observing different materials at home. He has taken three objects like steel plate, a polyethene sheet and a glass jar full of water. He tried to classify them into transparent, transleucent and opaque objects. Then choose the correct classification of above three respectively. []									
	Steel plate	Polyethene Sh	eet Glass jar full	of water						
	1) Opaque	Transparent	Transleucent							
	2) Transleucent	Opaque	Transparent							
	3) Transparent4) Opaque	Transleucent Transleucent	Opaque Transleucent							
19.	9. While thinking about properties of solids, a group of students in class 6 put sugar in a glass, in a bowl and in a vessel. They observed that sugar takes the shape of the container. since they know that liquids take the shape of the container. They concluded that sugar is a liquid. The second group in the class disagreed with the first group. Razia a student from the second group came up with an Idea. She took a single crystal of sugar and one drop of water and declared that sugar is a solid while water is a liquid. What must she have argued using only one crystal of sugar and one drop of water to declare their physical states i) A drop of liquid can be compressed but a sugar crystal cannot. ii) A single sugar crystal have a definite shape but a drop of water does not have									
	iii) Few solids like sand can be heaped and takes the shape of container									
	Choose the correct reason for the above arguement 1) i, ii only 2) ii, iii only 3) i, iii only 4) all are correct									
20.		ng are the examples of p			[]				
	i) Rotation of the mod	on on its axis ley's comet in the sky earth around the sun	3) Only i, ii and iii	4) Only i and	l iii	-				
21.	•	some water in a wide me				erve.				
	-	an empty Iron tin in the		ed bowl and obse	rve.	1				
	-	vation what can you con		uhan thay ana in	l othori]				
		one shape will sink in wa		•	omer s	snape				
	·	can sink can be made to		•						
	1) i, ii only	float can be made to sink 2) ii, iii only	s by changing their shap 3) i, iii only	e 4) all are cor	rect					



26.	Different combinations of gaseous mixtures are given below.	[]					
	i) Hydrogen chloride and ammonia							
	ii) Hydrogen chloride and water vapour							
	iii) Water vapour and ammonia							
	Choose the mixture of gases which cannot be separated by diffusion method 1) i and ii only 2) ii and iii only 3) i and iii only 4) i, ii, iii							
27.	Which of the given properties of rubber over metals is preferred for making soles of sl	hoes?						
	i) Rubber is more flexible than metals							
	ii) A rubber sole is stronger than a metal sole							
	iii) Rubber shoes float on water whereas metal shoes will sink							
	 iv) Rubber is not as hard as metals, so it can be easily cut into suitable shapes. 1) Only i and ii 2) Only ii and iii 3) Only i and iv 4) Only ii and 	[l iv]					
28.	A mixture of common salt and water can be separated by evaporation, but if you want a mixture of Iodine and methyl alcohol you should go for distillation because	to sep	arate					
	i) In evaporation, liquid cannot be collected in pure form	[]					
	ii) Iodine can be sublimable where as salt cannot be sublimable	-	_					
	iii) In distillation liquid cannot be collected in pure form							
	1) i, ii only 2) ii, iii only 3) i, iii only 4) All are corr	rect						
29.	During separation of solid and liquid mixture, sometimes we prefer filtration than semethod. Because,	dimer	ntion]					
	i) Complete separation of liquid is not possible in sedimentation							
	ii) When solid have less density comparing with liquid, sedimentation is not possible							
	iii) Filtration is a fast process							
	iv) Complete separation of components is possible in filtration 1) i and ii only 2) ii and iii only 3) iii and iv only 4) All are corrected to the control of the contr	rect						
30.	The symbol of silicon is 'Si'. It is derived from its Latin name called 1) Silicone 2) Silian 3) Silex 4) Silicosis	[]					
31.	The metals which can show the valency of Two and Four as variable valency are 1) Gold 2) Arsenic 3) Manganese 4) All	[]					
32.	A metal 'M' forms a carbonate having the formula $M_2(CO_3)_3$. Then find out valency	of M	and					
	formula of fluoride of M respectively.	[]					
	1) MCl ₃ ,3 2) 2, MCl ₂ 3) MCl ₂ , 2 4) 3, MCl ₃							
33.	A student decided to separate powdered calcium carbonate from		•					
	1) No, because both are soluble in water 2) No, because both are insoluble in water	L	J					
	3) Yes, because calcium carbonate is soluble but calcium chloride is insoluble in water 4) Yes, because calcium carbonate is insoluble but calcium chloride is soluble in water							
	4) 10s, because calcium carbonate is insoluble but calcium emoride is soluble in water							

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46.	Identify the tissue of the plant which transports water 1) Phloem 2) Xylem 3) Parenchyma 4) Collenchyma]	
47.	Carpel of a flower represents 1) Male reproductive system 3) Petals		2) Female reproductive4) Sepals	•	[]	
48.	Match the following				[]	
	1) Polyster		A) Smooth				
	2) Wool		B) Protein				
	3) Cotton		C) Natural fibre				
	4) Silk		D) Artificial fibre E) Carbohydrate				
	1) $1 - C$, $2 - D$, $3 - E$,	4 - A	2) $1 - D$, $2 - C$, $3 - B$, $4 - A$				
	3) $1 - D$, $2 - C$, $3 - E$,	4 - A	4) $1 - C$, $2 - E$, $3 - A$, $4 - D$				
49.	Golden fibre is				[]	
	1) Jute yarn	2) Wool	3) Cotton	4) Silk			
50.	Which of the following	g district is famous for ca	arpet industry		ſ	1	
	1) Narayanpet	2) Warangal	3) Siricilla	4) Kothakota	-	-	
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