

## INTSO EDUCATION

## SCIENCE TALENT SEARCH OLYMPIAD (STSO) 2015-16

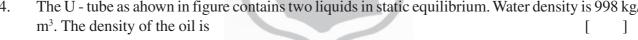
STAGE - 2	TIME	: 60 min
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**CLASS: VIII** Max. Marks : 50

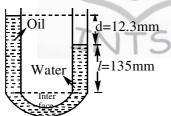
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- **戊** *Fill the OMR sheet completely and carefully.*
- **☆** Each question carries one mark and has only one correct answer. 1/4 (one fourth) marks will be deducted for indicating incorrect response of each question.
- $\Rightarrow$ *The question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

		PI	HYSICS			
l.		ooy and a 45 kg girl use a eleration of the girl toward Is the girl is 2) 2 m/s <sup>2</sup>		•		
2.		on a weighing scale in an the elevator approaches e elevator is		`		
3.		n equilibrium when suspendent its density is 5.6 g/cc 2) 2.8 g/cc	11.11			
1.	The U - tube as ah m <sup>3</sup> . The density of 1) 895 kg/m <sup>3</sup>		wo liquids in static equ	ilibrium. Water densit	y is 99 [	98 kg/ ]



- 2) 915 kg/m<sup>3</sup>
- 3)  $945 \text{ kg/m}^3$
- 4)  $900 \text{ kg/m}^3$

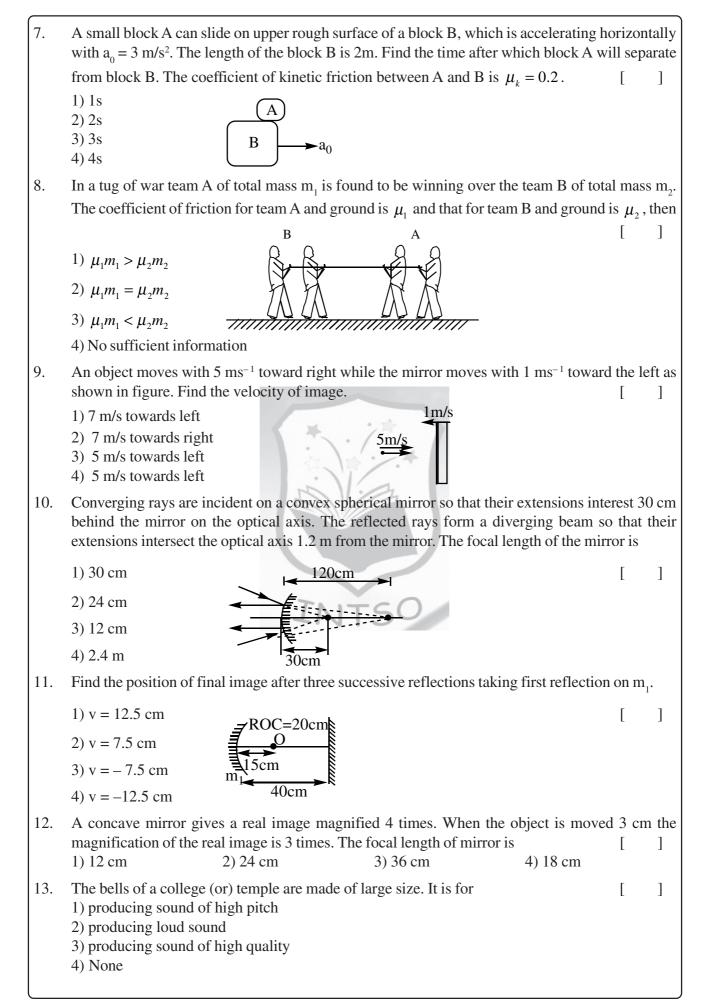


- A block of density  $\rho = 800 \text{ kg/m}^3$  floats in a fluid of density  $\rho_f = 1200 \text{ kg/m}^3$ . The block has 5. height (h) = 6cm. If the block is held fully submerged and then released, then the acceleration of block is 1
  - 1) 5  $m/s^2$
- $2) 2.5 \text{ m/s}^2$
- $3) 4 \text{ m/s}^2$
- 4)  $4.9 \text{ m/s}^2$
- A bottle of circular shaped mouth of radius 5 cm is closed by a tightly fitted light cork. A light 6. hook is attached to the cork (shown in figure). The coefficient of friction between cork and bottle
  - is  $\frac{1}{22}$ . The normal contact force exerted by bottle on cork per unit circumference of the cork is

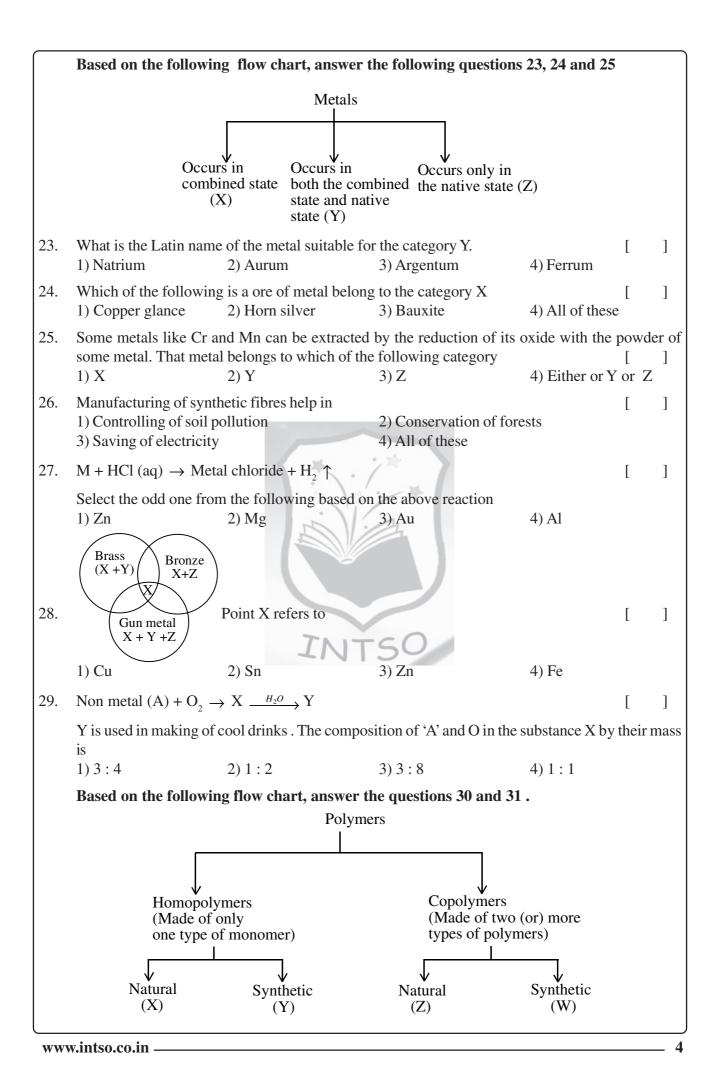
100 N/m. Find the maximum force F applied on the hook, so that the cork does not pop out.

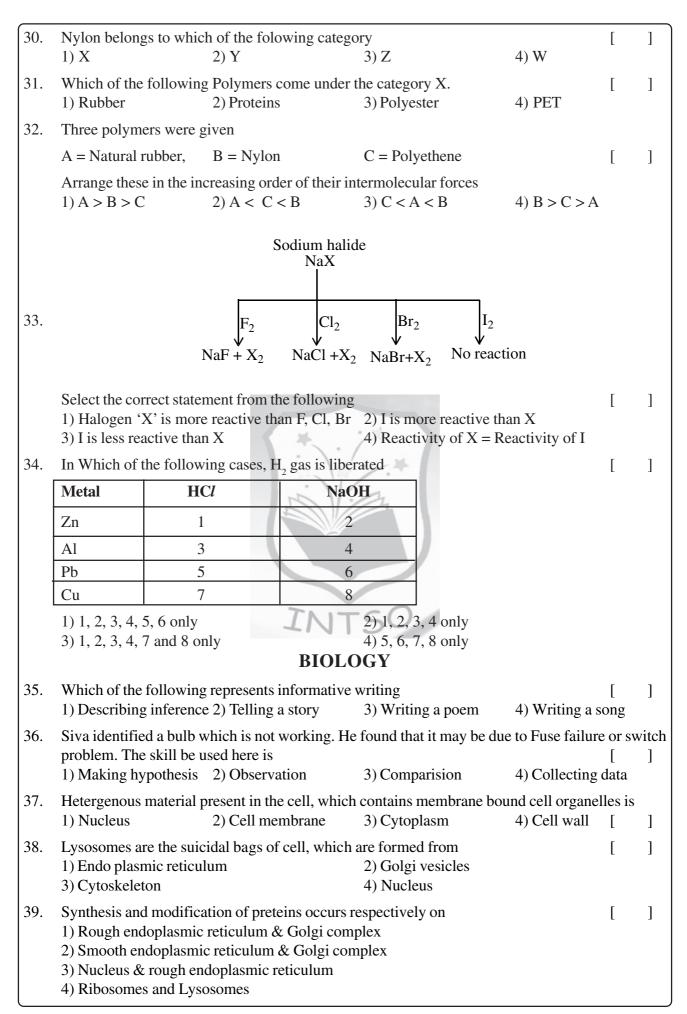
- 1) 10N
- 2) 100N
- 3) 50N
- 4) Zero





14.	This is due to the fact that his voice  1) has a definite pitch  2) has a			if he is hidden behind ite quality ate the wall	a solid [	wall.
15.	ŕ	1 food items are preserved	· -	4) gold	[	]
16.	Due to ru 1) positiv	bbing of air particles the water dree 2) negative	oplets in clouds ge 3) Both 1 and	•	[	]
17.	Highest la 1) Chitton	atitude in AndraPradesh 2) Prakasam	3) Adilabad	4) Visakha	[	]
		CHE	MISTRY			
18.	Match the	e terms of Column A correctly wi	th the pharases giv	en in Colum B.	[	]
	Column	A	Column B			
	i) Polyest	er	a) Prepared b	y using wood pulp		
	ii) Teflon		b) Used for m	naking parachutes and	stockir	ngs
	iii) Rayor		c) used to ma	ke non-stick cookware	:S	
	iv) Nylon		. /	not wrinkle easily		
	1) d, a, c,	b 2) d, b, c, a	3) d, c, a, b	4) b, a, c, d		
19.	Rahul cat	egorised the following substance	s as shown below			
	S. No	Substance	Biodegradable	Nonbiodegradable		
	p)	Peels of vegetable and fruit	V	×		
	q)	Paper	×	V		
	r)	Cotton cloth	V	×		
	s)	Woolen items	TSO	$\sqrt{}$		
	t)	Wood	×	$\sqrt{}$		
	w)	Metal cans	V	×		
	x)	Plastic bag	×	V		
	Which of	the following substances are not	correctly matched		[	]
	1) p, r, x	2) r, s, t, x	3) q, s, t, w	4) s, w, p, r		
20.	Which of 1) Reuse	the following is not included in 4 2) Reserve	R principle 3) Recycle	4) Recover	[	]
21.		other is preparing lemon pickle. So ther mother to store the pickle in hium 2) Clay	_	r a vessel to store that 4) Glass.	pickle. [	. Raju ]
22.		vent to a goldshop with her paren ng jewellery. Goldsmith gave som ble b) Ductile			is pre	ffered
	e) Lustron Which of 1) Only a	the above reasons are suitable.	3) d only	4) a, b, c, e	[	]





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40.	What is the function of cell shown in this picture			]
	1) Phagocytosis			
	2) Production of antibodies			
	3) Transport of oxygen			
	4) Transport of food			
41.	Disease	Causative organism	[	]
	1) Tikka disease of ground nut	Fungi		
	2) Tobacco mosaic	A		
	3) Smurt of rice	В		
	4) Citrus canker	C		
	A, B, & C respectively are			
	1) Fungi, virus and bacteria	2) Bacteria, virus and protozoa		
	3) Virus, fungi and bacteria	4) Bacteria, virus and fungi		
42.	Which of the following increases soil ferti	lity	[	]
	1) Growing cereal crops	2) Growing pulse crops		
	3) Spraying chemical fertilizers	4) Spraying pesticides		
43.	Eating spoiled fish leads to food poisioning		[	]
	1) Clostridium tetani	2) Clostriduium botulinum		
	3) Yersinia pestis	4) Thermus aquaticus		
44.	Pick the odd one out	V:	[	]
	1) Polio 2) Cholera	3) Chiken pox 4) Encepha		
45.	Identify the part of male reproductive syst	-	occurs	-
	1) Epidymis	2) Semial duct	Ĺ	]
	3) Seminiferous tubules	4) Vasa efterrentia		
46.	The site of fertilization in female reproduc		[	]
	1) Uterus 2) Fallopian tube	3) Ovary 4) Egg		
47.	Embryo gets food from the mother throug	-	[	]
	1) Umbilical cord 2) Placenta	3) Oviduct 4) Uterus		
48.	Which of the following is correct regarding		[	]
	1) Egg is allowed to fertilize in the female	÷		
	<ul><li>2) Zygote is allowed to develop complete</li><li>3) Sperm and egg collect from a couple ar</li></ul>		o waak	
	zygote formed is placed in mother's uterus		a week	
	4) The baby formed through IVF will not			
49.	Which of the following is not the function		[	1
.,.	1) Controlling the sugar levels	2) Controlling the calcium levels	L	J
	3) Controlling salt & water levels	4) Removal of waste materials		
50.	Which of the following hormones causes	ovulation	[	1
	1) Leutinizing hormone	2) Follicle stimulating hormone		-
	3) Oestrogen	4) Progesterone		