# MINDATHON SCIENCE OLYMPIAD (MSO)

### **CLASS-IV**

### **TEST PAPER**

Time: 1 hour Max Marks: 40

#### **General Instructions:**

c) Nailpaint remover

- There are a total of 35 questions in this test.
- Read each question carefully and answer all of them.
- All the answers must be correctly marked in the OMR sheet provided to you.
- Questions (1–30) carry one mark each. Questions in the "Mindathon Little Scientists" (31-35) carry 2 marks each.

#### **SECTION A: GENERAL SCIENCE AND SCIENTIFIC AWARENESS**

1.	The undersurface of a leaf has tiny pores called stomata. Why are they important?					
	a) They help in transpiration.	b) They help in gaseous exchange.				
	c) Both a) and b).	d) They help to absorb sunlight.				
2.	Sanya buys an aquarium. But she doesn't like some plants kept in it. Why are these plants important?					
	a) They absorb exhaled gas of fish	b) They keep the aquarium cool				
	c) They add to the beauty of aquarium.	d) They perform photosynthesis.				
3.	Which of these foods is a rich source of proteins?					
	a) b)	c) d) All of these				
4.	Which of the following is/are true about microbes?					
	a) Microbes are always harmful.					
	b) Microbes are sometimes harmful and sometimes useful.					
	c) Microbes are always useful.					
	d) All of these are incorrect.					
5.	Some substances do not change into liquid on heating. Their conversion into gaseous state directly is seen in					
	a) Incense stick	b) naphthalene balls				
	c) Camphor	d) all of these				
6.	Which of these household products are not meant for EXTERNAL USE ONLY?					
	a) Mustard oil	b) Dishwashing liquid				

d) Floor cleaner

7.	The blood vessels which called	have thick and elastic w	alls due to high press	ure of blood are			
	a) veins	b) capillaries	c) arteries	d) bronchi			
8.	Which of these life cycles	s do not represent metar	norphosis?				
	a) egg→maggot→butter	fly	b) egg→chick→he	n			
	c) spawn→tadpole→frog	I	d) none of these				
9.	The cyclones going to hit the coastal regions are nowadays predicted much in advance. This is possible due to information presented by						
	a) News channels		b) fisherman				
	c) tourists		d) artificial satellite	d) artificial satellites			
10. A stone rolls down a hill, but it cannot climb uphill. This happens because of which forces?				se of which of these			
	a) Gravitation	b) Magnetic force	c) Friction	d) Muscular force			
11.	Which of these represent	t two inclined planes atta	iched back to back?				
	a) Axe head	b) Knife edge	c) Both a) and b)	d) Pulley			
12.	People store water in diff water remain the coldest		s as shown below. In v	which of these does			
	a)	b)	C)	d)			
13.	In which of the following	animals, does the embry	o develop outside the	mother's body?			
	a) crocodile	b) whale	c) hippopotamus	d) dolphin			
14.	We feel the urge to urina	te when					
	a) our bladder walls con	tract	b) our bladder walls are stretched				
	c) our bladder is empty		d) our bladder is h	d) our bladder is half filled			
15. In which of these types of fires, we can't use water as an extinguisher?							
	a) forest fire	b) oil fire	c) electrical fire	d) both b) and c)			
		SECTION B. EVERYDA	AY SCIENCE				
16.	Sumathi got a sprain in her leg. What should her mother do to relieve her?						
	a) apply an ice pack		b) give her warm milk with turmeric				
	c) spray soothening me	dicine	d) do any of these				
17.	The device shown here is	s used to measure					
	a) mass		b) volume				
	c) weight		d) amount	•			

c) they are low in fats  d) All of the above  20. Leaves of many plants are edible. But we cannot consume which of these a) bay leaf c) basil leaf  21. We do not find rainforests on which of the following continents? a) Asia b) Africa c) Australia d) all of these  22. The set which contains foods that anaemic patients should take is a) apple, banana, gourd, spinach c) iodised salt, seafood d) salad, sprouts, oat  23. A sticky yellow layer of germs that develops on the teeth is called? a) cavity b) plaque c) caries d  24. Some solids are compressed or stretched to change their shape. Which of this property? a) spring b) rubber c) coal d  25. Which of these gases does a fire extinguisher spray? a) oxygen b) water vapour c) nitrogen d) carbon dioxide  26. The emergency number for children in time of need is- a) 1098 b) 1091 c) 112 d  27. Vanshika's grandfather is taken to hospital twice a week for dialysis. Which have failed? a) heart b) kidney c) pancreas d  28. An aerial animal which does not lay eggs is a) monkey b) bat c) bird d  29. To kill the germs present in water in a swimming pool, which of these is us a) detergent b) calcium c) chlorine d  30. People using wheelchair, can move in public places using	18.	Suhani warmed milk and added some sour curd to it. The next morning, she finds					
c) milk converts into cream due to action of yeast fungi d) milk converts into cream due to action of lactobacillus bacteria  19. Millets are preferred over wheat and rice for good health because a) they have more minerals b) they have more dic c) they are low in fats  20. Leaves of many plants are edible. But we cannot consume which of these a) bay leaf b) banana leaf c) basil leaf d) all of these  21. We do not find rainforests on which of the following continents? a) Asia b) Africa c) Australia d  22. The set which contains foods that anaemic patients should take is a) apple, banana, gourd, spinach b) milk, curd, banana c) iodised salt, seafood d) salad, sprouts, oat c) iodised salt, seafood d) salad, sprouts, oat c) caries d) cavity b) plaque c) caries d  24. Some solids are compressed or stretched to change their shape. Which of this property? a) spring b) rubber c) coal d  25. Which of these gases does a fire extinguisher spray? a) oxygen b) water vapour c) nitrogen d) carbon dioxide  26. The emergency number for children in time of need is- a) 1098 b) 1091 c) 112 d  27. Vanshika's grandfather is taken to hospital twice a week for dialysis. Which have failed? a) heart b) kidney c) pancreas d  28. An aerial animal which does not lay eggs is a) monkey b) bat c) bird d  29. To kill the germs present in water in a swimming pool, which of these is us a) detergent b) calcium c) chlorine d  30. People using wheelchair, can move in public places using		a) milk converts into curd due to action of lactobacillus bacteria					
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		a) detergent	b) calcium	c) chlorine	d) any of these		
a) lever b) wedge c) inclined plane d	30.	People using wheelchair, can move in public places using					
		a) lever	b) wedge	c) inclined plane	d) screw		

## **SECTION C: MINDATHON LITTLE SCIENTISTS**

31.	Match the	e device	s with e	nergy conv	ersion ta	aking	place:		
p.			electric cell		l.	potential to kinetic			
		q.	catap	ult		m.	chemical to heat a	nd light	
		r.	bulb			n.	chemical to electric	cal	
		s.	match	stick		0.	electrical to light		
	a) p-n;	q-l; r-o;	s-m				b) p-l; q-n; r-o,	s-m	
	c) p-n;	c) p-n; q-l; r-m; s-o					d) p-n; q-m; r-c	o, s-l	
32.	A breeze	e occurs	during	B time as 0	C gets co	ooled	down faster than <u>D</u>	<u>.</u>	
	Α		В	С	D				
	a) land	d r	night	sand	water				
	b) sea	r	night	sand	water				
	c) land	d d	lay	water	sand				
	d) land	d d	lay	sand	water				
33.	Which o	Which of the following is mismatched with its young one?							
	a) frog-tadpole					b) cockroach- maggot			
	c) kangaroo- joey					d) elephant- cub			
34.	Read the box?	e name	s writter	n in the grid	l below. I	How	many of these would	d you find in a first	aid
	cotton swab		chapa	chapati		tweezers	gauge roll		
tongs		antiseptic ointn		nent	bandage	ice cubes			
	a) 4			b) 5			c) 6	d) 7	
35.	The process shown here is same as which of the following?								
	a) burning of camphor								
	b) heating of ammonium chloride								
	c) conversion of ice into water								
	d) Vanishing of water spilled on floor					- Color	- And Sections and Assess and Assess and Assess		