

**S****I****M****S**<sup>®</sup>

(SCHOLARS INTEGRAL MATHS &amp; SCIENCE OLYMPIADS)

**BIGGEST NATIONAL LEVEL OLYMPIADS (STAGE - II)****MAX. MARKS : 100****SISO QUESTION PAPER****TIME: 60 MIN.**

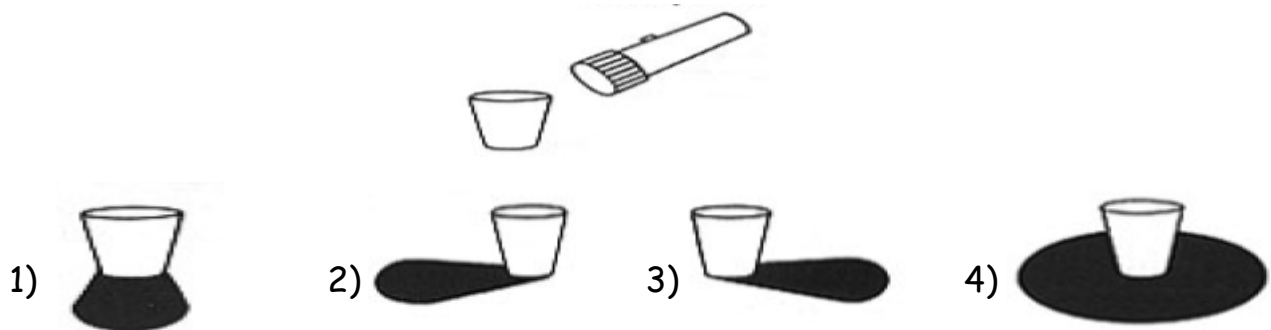
NAME OF THE STUDENT : .....  
HALL TICKET NUMBER : .....  
NAME OF THE SCHOOL : .....

**INSTRUCTIONS:**

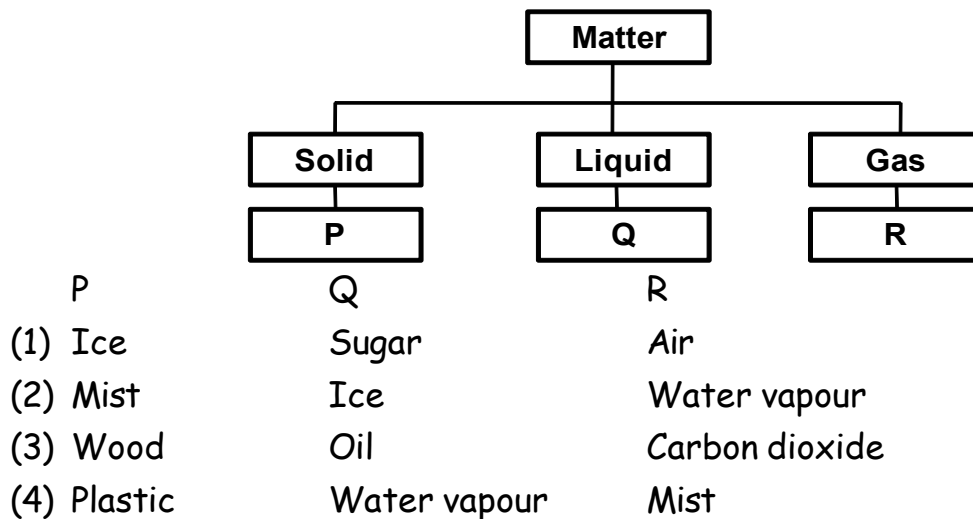
- ✦ This question paper contains 25 questions.
  - ✦ All questions are single correct answer type.
  - ✦ Each question carries 4 marks.
  - ✦ No negative marks.
  - ✦ Check whether 25 questions printed or not.
  - ✦ Read the instructions carefully given on the OMR sheet.
  - ✦ Hand over OMR Sheet to the invigilator before leaving the exam hall.
  - ✦ Retain Question paper with you.
  - ✦ Results will be available at [www.simsolympiads.org](http://www.simsolympiads.org) .
  - ✦ One copy of results will be sent to the concerned school mail id.
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**Single Correct Answer Type :****25 × 4 = 100 M**

1. Look at the way the flash light is being held in the picture. where do you think the cup's shadow will fall ?



2. Study the classification chart below. Which of the following correctly represents P, Q and R?



3. Which of the following statement(s) of the respiratory system is/are TRUE?
- It helps to remove carbon dioxide from the body.
  - It takes in oxygen from the air and passes it to the blood.
  - The main organs in the respiratory system consist of the nose, windpipe, lungs, diaphragm and heart.
- 1) (iii) Only      2) (i) & (ii)      3) (i) & (iii)      4) (i),(ii) & (iii)
4. Read the list of the animals given below and answer the following question.  
 "Fox, Frog, Mouse, Elephant, Lizard, Duck, Camel, Crow, Pig, Parrot, Buffalo, Zebra"  
 Which of the following group of animals given in the list 'LAY EGGS' ?
- 1) Frog, Lizard, Duck, Crow, Parrot      2) Fox, Frog, Duck, Crow, Parrot  
 3) Zebra, Elephant, Mouse, Pig, Fox      4) Camel, Mouse, Buffalo, Crow, Pig.
5. Which one of the following everyday devices contains a magnet?



6. Match the following and choose the correct option :

	COLUMN - I		COLUMN - II
1)	Water vapour	p)	Insoluble and lighter than water
2)	Stones	q)	Solid form of water
3)	Ice	r)	Gaseous form of water
4)	Oil	s)	Insoluble in water

1) 1-s, 2-r, 3-q, 4-p

2) 1-p, 2-s, 3-q, 4-r

3) 1-r, 2-s, 3-q, 4-p

4) 1-r, 2-s, 3-p, 4-q

7. "I have a crown, I am not a king; I have a neck, I am not an animal; I have a root, I am not a plant". Who am I ?

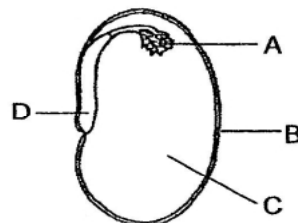
1) Bacterium

2) Tooth

3) Nail

4) Tongue

8. The diagram below shows the cross-section of a seed.



Which part of the seed provides food for the seedling?

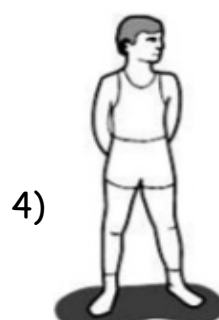
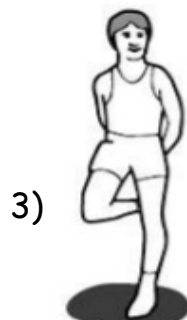
1) A

2) B

3) C

4) D

9. Which diagram shows the child exerting least pressure



10. Fill in the blanks using correct words. Ruby and emerald are examples of --X-- which are --Y-- and --Z-- minerals.

X

Y

Z

1) Gemstones

Soft

Black

2) Marbles

Hard

Colourful

3) Gemstones

Hard

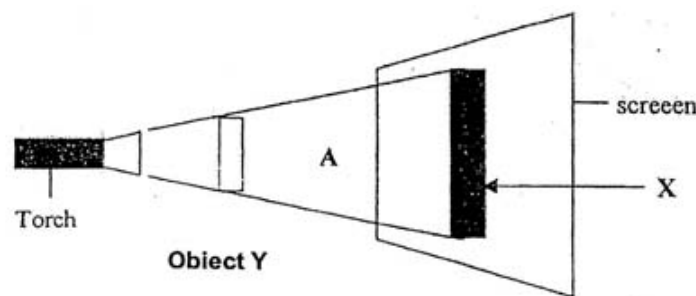
Colourful

4) Marbles

Hard

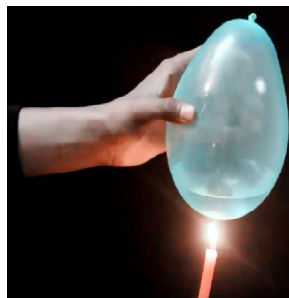
Blue

11. Which of these is needed to prevent 'Constipation' ?  
 1) Proteins                      2) Carbohydrates    3) Roughage                      4) Fats
12. Which of the following statement(s) about the transportation of water in plants and humans is/are TRUE?  
 i) There are tubes in both plant and human system to carry water.  
 ii) The transportation of water in plants and humans is necessary for the removal of waste material.  
 iii) The transportation of water is carried in the blood in plants and human system.  
 1) (i) Only                      2) (i) & (ii)                      3) (i) & (iii)                      4) (i),(ii) & (iii)
13. Study the diagram below carefully.



When object Y is placed in front of a torch, X is seen on the screen. What is X here ?

- 1) Transparent material                      2) Translucent material  
 3) Opaque material                      4) Shadow
14. A balloon when taken near to a candle it burst because:



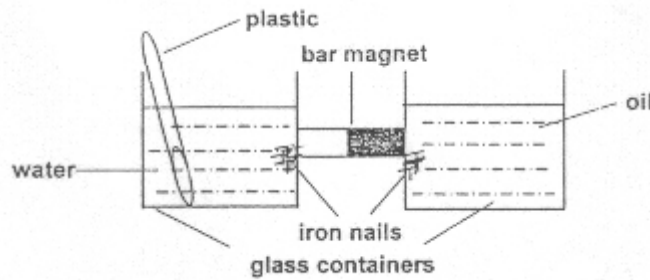
- 1) Air inside condense                      2) Air inside expands  
 3) Balloon reduced in size                      4) Balloon does not melts
15. Given below is a list of some plants and the habitats in which they live. Which one is **WRONGLY** matched ?

	Plant	Habitat
1)	Mangroves	Marshy areas
2)	Coconut	Coastal areas
3)	Cactus	Hilly areas
4)	Mango	Plains

16. Identify the animal that have spines to defend themselves from their enemies.

- 1) Platypus                      2) Porcupine                      3) Chameleon                      4) Tortoise

17. Study the diagram below.



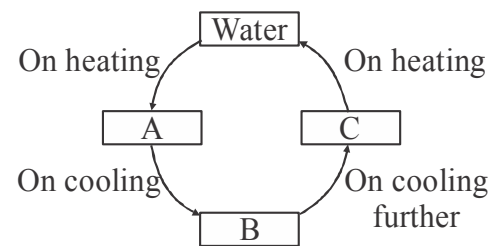
The above set-up shows that the attraction of a magnet can pass through \_\_\_\_\_.

- A: oil                      B: glass                      C: water                      D: plastic                      E: iron nails

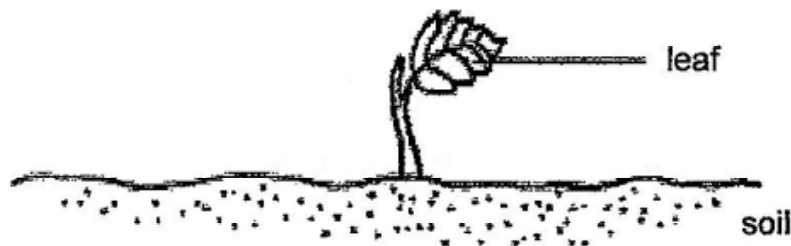
- 1) A and C only                      2) B and D only  
3) A, B and C only                      4) C, D and E only

18. The following figure shows a change of three states of water. What is A, B and C in the given figure ?

	A	B	C
1)	Steam	Water	Ice
2)	Ice	Steam	Water
3)	Steam	Ice	Water
4)	Water	Ice	Steam

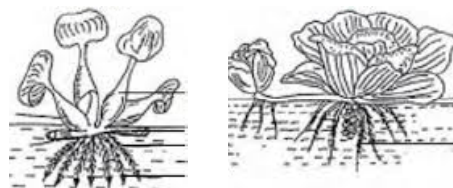


19. The diagram below shows a young plant. The leaf helps the plant to \_\_\_\_\_.



- 1) Absorb nutrients                      2) Absorb water  
3) Grow upright                      4) Make food

20. The diagrams given below belongs to 'Aquatic plants'. They represent which group?



- 1) Fixed Water plants                      2) Submerged plants  
3) Free Floating plants                      4) Desert plant

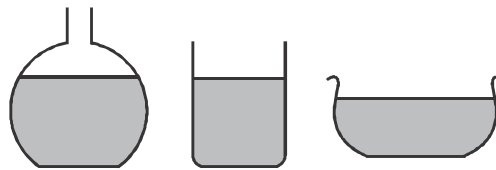
21. Which of the following objects is wrongly classified?

Allows most light to pass through	Allows some light to pass through	Do not allow light to pass through
Glass Clear water	Tracing paper Metal can	Cardboard Wood

1) Clear water      2) Metal can      3) Tracing paper      4) Wood

22. Three different containers shown below contain 1000 ml of water in each of them. This indicates that water has \_\_\_\_\_

i) A definite shape      ii) A definite volume      iii) No definite shape



1) Both i & ii      2) Both ii & iii      3) Both i & iii      4) Only i

23. Select the correct option in the place of question mark ( '?' ).

Herbivore	Carnivore	Omnivore
Goat	Lion	?

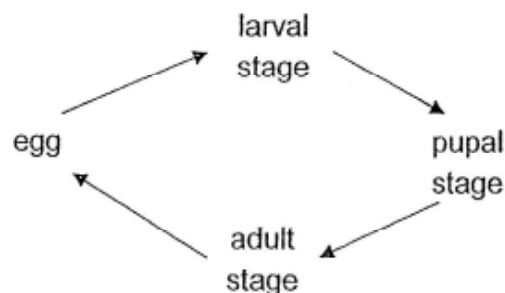
1) Vulture      2) Bear      3) Mosquito      4) Tiger

24. Which of the following characteristics is shared by all the animals given below ?



1) They live in water      2) They breathe through gills  
3) They lay eggs      4) They look after their young ones

25. The diagram below shows the different stages in the life cycle of an animal.



Which of the following animals go through the life cycle as shown above?

(i) Chicken      (ii) Butterfly      (iii) Mosquito      (iv) Cockroach

1) (i) Only      2) (i) & (iv)      3) (ii) & (iii)      4) (ii),(iii) & (iv)