



SIMS[®]

(SCHOLARS INTEGRAL MATHS & SCIENCE OLYMPIADS)



BIGGEST NATIONAL LEVEL OLYMPIADS (STAGE - II) : 2018-19

MAX. MARKS : 100 SISO QUESTION PAPER TIME: 60 MIN.

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

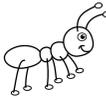
INSTRUCTIONS:

- ✦ 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.simsolympiad.org .
- ✦ One copy of branch results will be sent to the concerned school mail id.

Single Correct Answer Type :

25 × 4 = 100M

1. Observe the following things in the given box.

Plant  P	Mushroom  Q	Grass  R	Tree  S	Ant  T	Fern  U
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Classify the given things according to their ability to prepare own food.

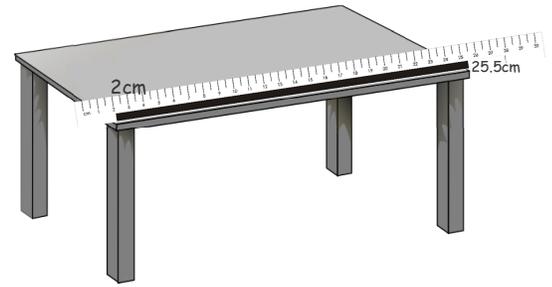
Can make their own food

Cannot make their own food

- 1) P, R, S
- 2) P, R, S, U
- 3) S, T, U
- 4) Q, S, U

- Q, T, U
- Q, T
- Q, R
- P, R, T

2. A girl uses a worn out ruler to measure the length of a table in her room. She placed the ruler such that the mark 2.0 cm coincides with one end and the other end coincides with the mark 25.5cm. The length of the table is ____ cm.



- 1) 23.5 2) 33.5
3) 27.5 4) 37.5

3. Select the odd one among the given leaves based upon their uses.



4. We can see a tree in the day because _____ .

- 1) The tree gives off light of its own
2) Light travels from our eyes to the tree
3) The tree reflects sunlight into our eyes
4) The tree allows light to pass through it

5. What are the parts of the pistil ?

- 1) Anther, pollengrain and pollensacs 2) Ovary, style and stigma
3) Pedicle, thalamus and flowerbud 4) Calyx, Corolla and androceium

6. Which of the following options contains foods obtained from roots of the plant ?

- 1) Spinach, cabbage, coriander 2) Potato, Mango, Broccoli
3) Sugar cane, onion, beetroot 4) Radish, Turnip, carrot

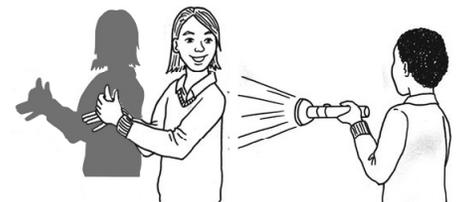
7. Asma and amith took two balloons. She blew air with mouth in one balloon and he filled another balloon with the vapours of boiling water. They released the two balloons and observed that the balloon with the hot vapours rise higher than the other balloon. What did they learn from this experiment?



- 1) Hot air is heavier than the cold air 2) Water vapour give energy to the balloon
3) Air likes hot balloons 4) Hot air is lighter and therefore rises higher

8. The size of a shadow of an opaque object close to the screen and away from the source of light

- 1) Increases
2) Decreases
3) Remains the same
4) First decreases and increases



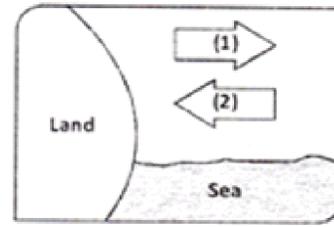
9. Which one of the following is false about food.

- 1) Balanced diet keeps us fit and healthy
2) Cheese is an animal product
3) Over cooking increases the nutritive value of food
4) Fresh food has more nutritive value than preserved food

10. Based on the following figure.

Arrow 2 represents .

- 1) The direction of land breeze
- 2) The direction of the oxygen released by sea
- 3) The direction of sea breeze
- 4) The movement of water



11. In order to work, energy is

- | | |
|-----------------------------|------------------------|
| 1) Transferred or converted | 2) Used up |
| 3) Lost | 4) Lost or transferred |

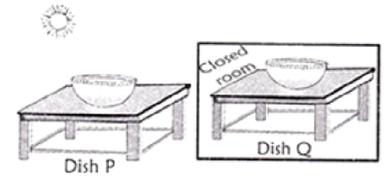
12. In dholak sound is produced due to

- | | |
|-----------------------|----------------------|
| 1) Stretched membrane | 2) Stretched strings |
| 3) Air column | 4) Vibration of air |



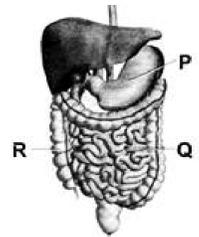
13. A student took two dishes P and Q and poured equal amounts of water in them. He placed Dish P in the sunlight and Dish Q in a closed room. What is the rate of evaporation in dish P and dish Q?

- | | |
|---------------------|----------------------------|
| 1) Faster in dish P | 2) Slower in dish P |
| 3) Faster in dish Q | 4) Same in both the dishes |



14. Select the correct option regarding the organ system shown here.

- 1) If part P is removed food will not be masticated and absorbed
- 2) If part Q is removed water from food will not be absorbed
- 3) If part R is removed complete digestion of all food components will not take place
- 4) None of these



15. Rahul got stomachache. Which of the following could be a reason ?

- 1) He ate food at seven in the evening
- 2) He drank water after eating food
- 3) He did not chew the food properly
- 4) He did not wash his hands properly after eating food

16. Vishal took some water and poured it into an ice tray and kept in a freezer. The water freezed and formed into ice. Then he poured some water into a mug and water took the shape of the mug. When he heated the water, it formed into water vapour. With this observation we can conclude that water exists in

- | | |
|----------------------|--------------------------------------|
| 1) Only solid form | 2) Only liquid form |
| 3) Only gaseous form | 4) Solid, liquid and in gaseous form |

17. What do the objects given have in common?

- (i) They can be found on a seedling
- (ii) They are fruits
- (iii) They come from flowering plants
- (iv) They have seeds.



Chilli



Brinjal



Tomato

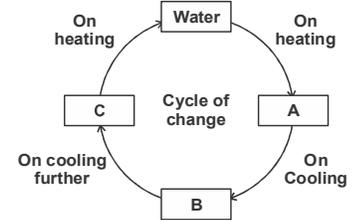
- | | |
|------------------------------|------------------------------|
| 1) Only (iii) and (iv) | 2) Only (i), (iii) and (iv) |
| 3) Only (ii), (iii) and (iv) | 4) (i), (ii), (iii) and (iv) |

18. A boy try to roll stone of the same weight and size up ramps of different heights. Which one of the following is difficult to climb up?



19. The given figure shows the changes which occur in water cycle. What are A, B and C?

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



20. Match the following and select the correct answer

- | System | Function |
|---------------------------|-------------------------------------|
| a) Circulatory | i) Helps in products of offspring |
| b) Skeletal | ii) Helps the body to move |
| c) Reproductive | iii) Helps in the movement of blood |
| d) Respiratory | iv) Helps in exchange of air |
| 1) a-iii, b-iv, c-i, d-ii | 2) a-iii, b-ii, c-i, d-iv |
| 3) a-iv, b-iii, c-ii, d-i | 4) a-iii, b-i, c-iv, d-ii |

21. What is the first thing we should do when a person is injured and bleeding badly?

- 1) We should call the police and elders 2) We should inform to our principal
 3) We should tie a tight cloth around the wound 4) We should call the doctor

22. In the experiment shown below, water was poured into a container which has some soil. Air bubbles were seen rising. What does this show?

- 1) Soil contains moisture 2) Soil contains water
 3) Soil contains air 4) Soil contains sand



23. Which of the following is a road safety measure ?

- 1) Ignore traffic signals after midnight
 2) Drive under the influence of alcohol
 3) Over take without using your indicator light
 4) Wear a safety helmet while riding a motor cycle

24. What is Zebra crossing ?

- 1) It is a place designated for pedestrians to cross the road
 2) It is a place in Zoological parks where zebras can cross the road
 3) It is a lane where cyclists can ride
 4) It is a place where a policeman stands to control traffic

25. Is water pollution connected with any other kind of pollution?

- 1) Yes, fertilizers, garbage on land can pollute water
 2) No, water pollution isn't connected with any other pollution
 3) Yes, noise pollution can cause water pollution
 4) Yes, sound pollution can cause water pollution