



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

Single Correct Answer Type :

25 × 4 = 100M

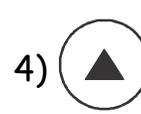
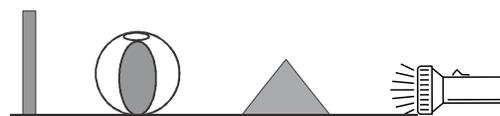
1. Match the terms in column-I with those in column-II in the following table

Column-I	Column-II
a) Cooking	i) Puries
b) Backing	ii) Chapati
c) Roasting	iii) Rice
d) Frying	iv) Biscuits

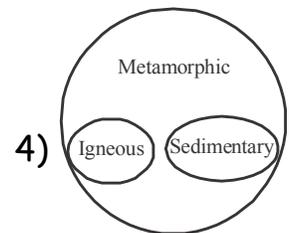
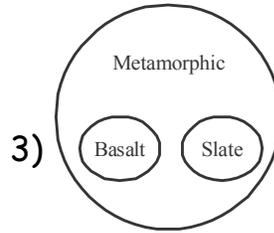
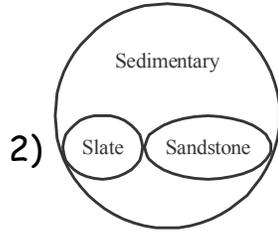
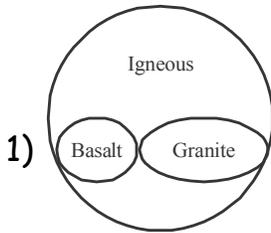
1) a-i, b-iii, c-iv, d-ii 2) a-iii, b-iv, c-ii, d-i 3) a-iii, b-i, c-iv, d-ii 4) a-ii, b-i, c-iv, d-iii

2. A torch is shone on a wooden prism and a beach ball as shown below

What will be the shape of shadow observed on the screen?



3. Study the diagram and choose the correct option.

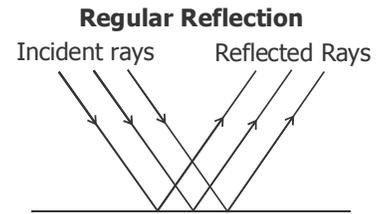


4. A deficiency disease that is common amongst people who eat polished rice is

- 1) Scurvy 2) Rickets 3) Beri-Beri 4) Night blindness

5. Any smooth polished surface which can turn back the rays of light into the same medium is called _____.

- 1) Lens
2) Mirror
3) Glass
4) All of these



6. Which of these foods give you most of the carbohydrates that provide your body with energy ?

- 1) Banana, orange, guava 2) Fish, meat, liver
3) Corn, rice, potatoes 4) Cake, cheese, butter

7. Read the sentences carefully and choose the correct option.

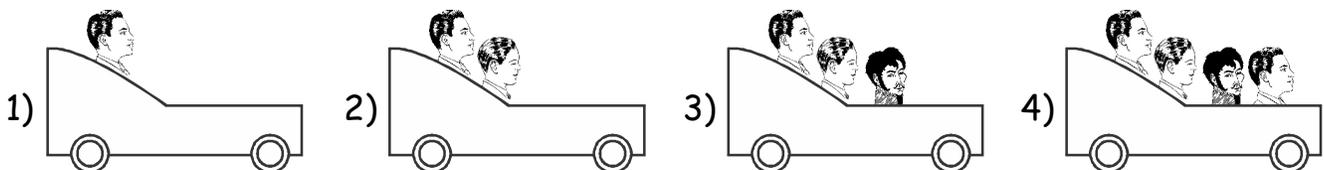
- A. Air will expand to fill the space available
B. You can compress water to force it to occupy less space
C. A solid has indefinite shape
D. Matter can be in different shapes

- 1) FTTF 2) TFFT 3) FFTT 4) TTFF

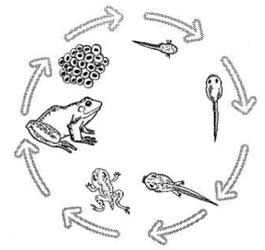
8. Which is the characteristic feature of the lamina of a leaf ?

- 1) The main vein present on the midrib of the leaf
2) Broad expanded green part of the leaf
3) Small leaves at the base of petioles
4) Chloroplast which contains the chlorophyll pigment

9. If four roller coaster cars were to travel down the slope, which car will travel faster down the slope?



10. Which one of the following process has been shown with the help of given figure ?



- 1) Adaptation
- 2) Metamorphosis
- 3) Reproduction
- 4) Hibernation

11. 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 |

12. Which of the following is necessary for photosynthesis

- 1) Carbondioxide, water and sunlight
- 2) Carbondioxide and water only
- 3) Carbondioxide, water and chlorophyll
- 4) Carbondioxide, water, sunlight and chlorophyll

13. Magnetic properties of magnet are

- 1) An attractive force on iron
- 2) Exerting attractive force on other magnets
- 3) Exerting repulsive force on other magnets
- 4) All of these

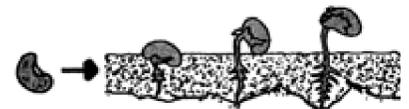
14. Match the types of soil in Column - I with their properties in Column - II.

- | Column-I | Column-II |
|-------------|--|
| p) Loam | i) Hardest layer of the soil |
| q) Top soil | ii) The layer below the top soil |
| r) Sub soil | iii) Best for the growth of the plants |
| s) Bed rock | iv) Roots of plants lie in this layer |

- 1) p-iii, q-iv, r-i, s-ii 2) p-iv, q-iii, r-i, s-ii 3) p-iii, q-iv, r-ii, s-i 4) p-ii, q-i, r-iv, s-iii

15. Observe the given diagram carefully :

Which of these factors are required for the seed to germinate ?



- | | |
|---------------|------------|
| P - Water | Q - Air |
| R - Nutrients | S - Warmth |

- 1) Only P, R and S 2) Only P, Q and R 3) Only P, Q and S 4) Only P, R and Q

16. The diagram shows two boys using the same amount of force to push the box. What will happen to the box.

- 1) The box will not move at all
- 2) The box will move to the left
- 3) The box will move to the right
- 4) The box will move left and then right



17. In the given figure rohan is kicking a football. What type of change is this :



- 1) Chemical change and physical change
- 2) Physical and reversible change
- 3) Chemical and irreversible change
- 4) Chemical and temporary change

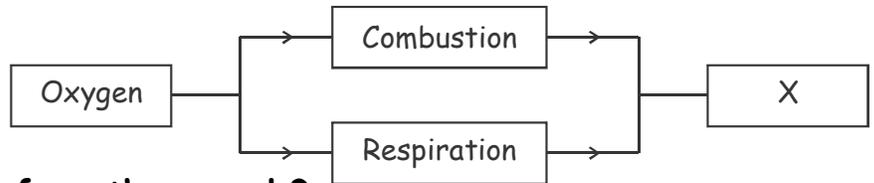
18. Which of the following plants reproduce in the same way as sugarcane ?

- i) Bryophyllum ii) Rose iii) Hibiscus

- 1) (i) and (ii) only 2) (i) and (iii) only 3) (ii) and (iii) only 4) (i), (ii) and (iii) only

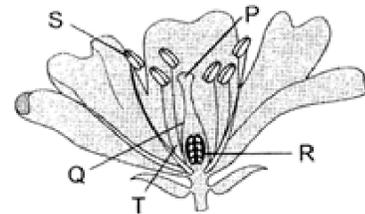
19. Which of the following choice can best fill in the box "X" given below.

- 1) Nitrogen
- 2) Carbondioxide
- 3) Carbonmonoxide
- 4) Hydrogen



20. Which of these labelled parts form the carpel ?

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



21. A group of connected cells is called a

- 1) Battery 2) Microphone 3) Solar 4) All of these

22. What happen after the given stage

- 1) The ovary splits open
- 2) Ovary develops into a fruit & ovules into seed
- 3) The ovules are dispersed
- 4) Germination of seeds take place



23. Choose the following statements are correct.

- I. Freshwater is required for irrigation
- II. Rain water is a source of river water
- III. Clay soil holds water more than humus
- IV. Dissolved oxygen is used for aquatic animals

Choose the correct option.

- 1) I ,II,III and IV 2) Only I 3) Only IV 4) Only II

24. Observe the figure given below. The given animal protects itself from its enemies by using

- 1) Poison gland 2) camouflagage
- 3) Fangs 4) Sting



25. How does a chameleon protect itself from its enemies ?

- 1) By changing the colour of its body 2) By releasing bad smell
- 3) It has a hard shell on its body 4) By curling its body