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(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	:

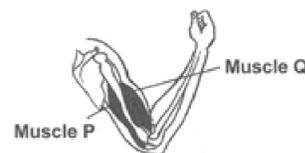
INSTRUCTIONS:

- ✦ 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. Look at the given figure and select the correct statement.



- 1) When muscle P and Q relax, arm move down
- 2) When muscle P and Q contract arm moves up
- 3) When muscle P contracts and muscle Q relaxes, the arm moves up
- 4) When muscle P relaxes and muscle Q contracts the arm moves up

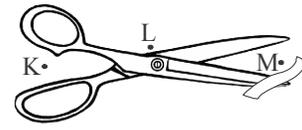
2. Temperature is

- 1) A form of heat transfer where energy is radiated in the form of rays.
- 2) A form of heat transfer
- 3) A form of energy contained in an object associated with the motion of molecules.
- 4) A measure of the hotness or coldness of an object

3. Global warming is the result of which one of the following

- 1) Air pollution
- 2) Water pollution
- 3) Soil pollution
- 4) None of these

4. The figure shows a pair of scissors

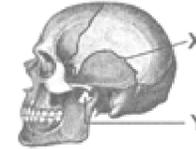


Which points marked K, L and M represent the fulcrum, effort and load?

- 1) Fulcrum - K, Effort - L, Load - M
- 2) Fulcrum - K, Effort - M, Load - L
- 3) Fulcrum-L, Effort - K, Load - M
- 4) Fulcrum - L, Effort - M, Load - K

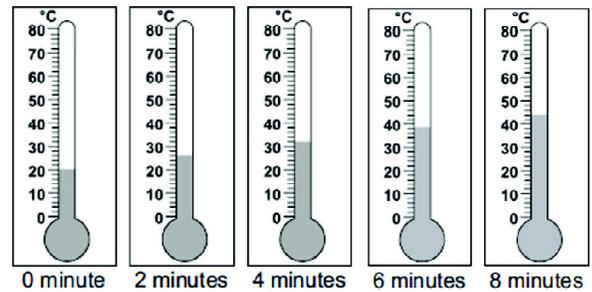
5. Obser the given skull structure and select the correct option

- 1) X type of Joint show no movement at all
- 2) Y type of joint is also present in our elbow
- 3) X type of joint is also found in between vertebrae
- 4) Both (1) and (2)



6. A cup of water was heated for eight minutes. The thermometers show the temperature readings during different times of heating.

What can be the temperature when it is heated for three minutes?

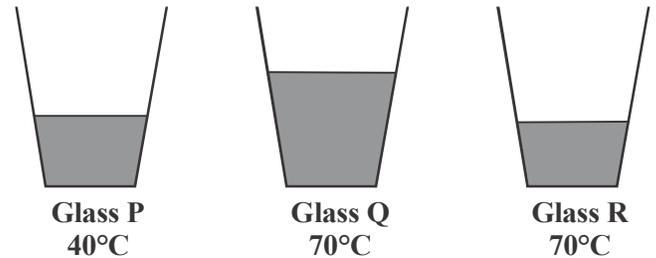


- 1) 27
- 2) 28
- 3) 29
- 4) 30

7. When a person is caught with fire, he or she is wrapped in a thick blanket so as to

- 1) Cut-off the oxygen supply
- 2) Cut of the nitrogen supply
- 3) Keep the body cool
- 4) Cut of the inert gases supply

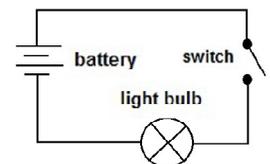
8. Three glasses are filled with different amounts of water at different temperatures as shown in the figure. Arrange the glasses in order, beginning with the one that has the most heat.



- 1) P, R, Q
- 2) Q, P, R
- 3) Q, R, P
- 4) R, P, Q

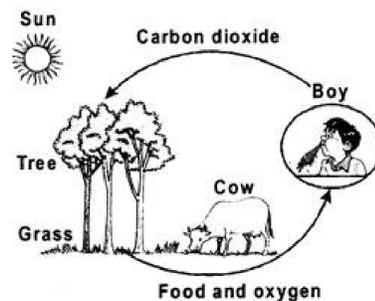
9. A diagram drawn by using symbols which represented electrical components is called:

- 1) Circuit diagram
- 2) Current diagram
- 3) Charges diagram
- 4) Electric diagram



10. What does the figure given below represent ?

- 1) Inter dependence between plants
- 2) Inter dependence between plants and animals
- 3) Inter dependence between animals
- 4) Inter dependence between abiotic factors



11. Match the following column-I with column-II. Choose the correct option.

Column - I

- a) Well water ()
- b) Sea water ()
- c) Lake water ()
- d) Mist ()

Column - II

- 1) Gaseous state of water
- 2) Under ground water
- 3) Surface water
- 4) Unfit for drinking

1) a-2, b-4 and 1, c-1, d-3

2) a-1, b-4 and 2, c-2, d-3

3) a-2, b-4 and 3, c-3, d-1

4) a-2, b-3 and 1, c-4, d-1

12. The following is a list of some plants and the habitat in which they live. Which option is mismatched ?

1) Mangroves - Marshy areas

2) Coconut - hot and damp places

3) Cactus - wet areas

4) Mango - plains

13. Identify the parts cabelled as P, Q, R and S in the figure and slect the correct option

P

Q

R

S

1) Cerebrum

Medulla

Skull

Cerebellum

2) Skull

Cerebrum

Cerebellum

Medulla

3) Medulla

Cerebellum

Cerebrum

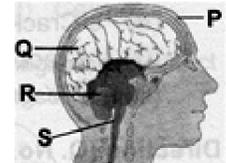
Skull

4) Cerebellum

Medulla

Skull

Cerebrum



14.  Converts

1) Mechanical energy into electrical energy

2) Solar energy into electrical energy

3) Electrical energy into sound energy

4) Geothermal energy into heat energy

15. The correct ascending order of gases as per their composition in air is:

1) Oxygen < Carbon dioxide < Nitrogen

2) Carbon dioxide < Oxygen < Nitrogen

3) Nitrogen < Hydrogen < Oxygen

4) Oxygen < Carbon dioxide < Hydrogen

16. Vaishnavi accidentally touched a hot metal and spontaneously withdraw her hand from the metal. Why did she react spontaneously ?

1) Due to the attraction of the metal

2) Due to the repulsion of the metal

3) Due to reflexaction

4) Due to the brightness and heaviness of the metal

17. A simple machine used to move the object to a higher place is the



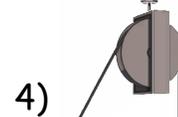
Wedge



Wheel and axle



Inclined plane



Pulley

18. Based on the following flow chart which gives the techniques a student adopted to separate the constituents of a mixture. What could the mixture be?

1) Water + sand + glass

2) Oxygen + hydrogen + salt

3) Stones + rice + water

4) Chalk powder + sugar + water

