



# SCHOLASTIC COUNCIL FOR ACADEMIC EXCELLENCE

## The All India Scholastic Quest Olympiads

Time: 45 minutes

Scholastic Science Olympiad – Class 6

Total Marks: 40

Paper code: S-6201/17

(Total 4 pages)

- A cup has a capacity of 200 millilitres. How many cups of water can be emptied into a jug with a capacity of 2 litres.**  
a) 5                                      b) 8                                      c) 10                                      d) none of these
- Identify the ODD one out.**  
a) mass                                      b) volume                                      c) length                                      d) shape
- Which of the following is an example of rotational motion?**  
a) car moving on a horizontal road                                      b) a child on a slide in the garden  
c) motion of a ceiling fan                                      d) moon's motion around the earth
- A butterfly moves from flower to flower in a garden. This motion can be called \_\_\_\_\_**  
a) oscillatory motion                                      b) periodic motion                                      c) circular motion                                      d) random motion
- We can measure temperature using a \_\_\_\_\_**  
a) thermometer                                      b) barometer                                      c) stethoscope                                      d) hotmeter
- If we keep blowing air inside a balloon, it will finally burst because \_\_\_\_\_**  
a) the volume becomes too large                                      b) the temperature inside the balloon increases  
c) the pressure inside becomes too large                                      d) the weight of the balloon increases
- Which of the following is a unit of pressure?**  
a) N/s                                      b) N/m                                      c) N/m<sup>2</sup>                                      d) m<sup>2</sup>
- The gravitational force acting on a 2 kg stone is \_\_\_\_\_ the gravitational force acting on a 2 kg school bag.**  
a) equal to                                      b) greater than                                      c) less than                                      d) double
- A coconut fell from a tree and made a large dent on a car which was parked under the tree. This is because the falling coconut had a large amount of \_\_\_\_\_**  
a) potential energy                                      b) kinetic energy                                      c) chemical energy                                      d) heat energy
- When petrol is burnt, \_\_\_\_\_ energy gets converted into heat energy.**  
a) potential                                      b) heat                                      c) kinetic                                      d) chemical
- Which of the following can be used to generate electric energy?**  
a) water stored behind a large dam                                      b) water in a river  
c) water in large lakes                                      d) water in the ocean

12. Which of the following is not a characteristic of all living things?  
a) growth                      b) reproduction                      c) movement                      d) need of food

13. Which of these is a process that takes place in plants but not in animals?  
a) Photosynthesis                      b) Excretion                      c) Digestion                      d) Respiration

14. The wheel barrow shown in the figure represents a \_\_\_\_\_  
a) class 1 lever                      b) class 2 lever  
c) class 3 lever                      d) none of these



15. What is the source of energy for all animals?  
a) sunlight                      b) air                      c) food                      d) water

16. Which of these is a unicellular organism?  
a) mosquito                      b) rat                      c) bacteria                      d) frog

17. Carrot plant is an example of \_\_\_\_\_  
a) annual plant                      b) biennial plant                      c) perennial plant                      d) creeper

18. Bela saw these plants in a corner of her garden. What are these plants called?

- a) jasmine plants                      b) mushrooms
- c) algae                      d) ferns



19. Plants which live partly or fully in water are called \_\_\_\_\_  
a) hydrophytes                      b) pteridophytes                      c) heterotrophs                      d) biennials

20. An oviparous animal is one that \_\_\_\_\_  
a) can live both on land and in water                      b) eats other animals  
c) lays eggs for reproduction                      d) is incapable of responding to stimulus

21. Example of a mammal which can fly is \_\_\_\_\_  
a) eagle                      b) owl                      c) bat                      d) humans

22. The process of loss of water through the leaves and stem is called \_\_\_\_\_  
a) transpiration                      b) respiration                      c) evaporation                      d) perspiration

23. Which of the following statements is true?  
a) The rate of breathing increases when we perform physical exercise.  
b) The rate of breathing remains constant all the time.  
c) The rate of breathing increases when we sleep.  
d) All the above three statements are false.

24. **Which of the following statements is true about respiration in fishes?**  
 a) fishes do not need respiration  
 b) fishes come out of the water for some time to perform respiration  
 c) fishes take in air from small bubbles present in water for respiration  
 d) fishes use the oxygen dissolved in water for respiration
25. **Which one of the following materials is a good conductor of heat?**  
 a) leather                      b) wool                      c) silk                      d) bronze
26. **Which is the physical property which is common to sugar, wood, aluminium and paper?**  
 a) lustre                      b) opaque                      c) solubility in water                      d) electric conductivity
27. **Name a material which is obtained from plants, is water resistant and soft.**  
 a) wood                      b) rubber                      c) graphite                      d) plastic
28. **Salt is obtained from salt pans which are located near sea water. The process through which salt is separated from sea water is \_\_\_\_\_**  
 a) evaporation                      b) decantation                      c) winnowing                      d) filtration
29. **Alum added to muddy water helps in purification of the water through the process of \_\_\_\_\_**  
 a) filtration                      b) distillation                      c) decantation                      d) sieving
30. **Fine and course sand can be separated through the process of \_\_\_\_\_**  
 a) winnowing                      b) threshing                      c) filtration                      d) sieving
31. **Which of the options is a non renewable natural resource?**  
 a) air                      b) rain water                      c) rubber                      d) petroleum
32. **Solar cells produce electricity from \_\_\_\_\_**  
 a) chemicals                      b) wind                      c) sunlight                      d) tides
33. **The ozone layer in the atmosphere is extremely important because \_\_\_\_\_**  
 a) it filters the harmful ultraviolet rays from the sun  
 b) it helps in formation of clouds which produce rain  
 c) ozone layer increases the supply of oxygen in the air  
 d) it kills the germs in air and makes air pure
34. **A tsunami is \_\_\_\_\_**  
 a) a violent thunderstorm  
 b) waves caused by a disturbance under the sea such as an earthquake  
 c) a volcanic eruption which gives out hot steam and molten lava  
 d) none of these
35. **Find the odd one out**  
 a) lake                      b) stream                      c) river                      d) plateau
36. **Which of these is a star?**  
 a) Jupiter                      b) Venus                      c) Sun                      d) Milky way



| 6 <sup>TH</sup> Science - Paper code: S-6201/17 |    |    |    |    |    |    |    |    |    |
|---|----|----|----|----|----|----|----|----|----|
| 1   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 |
| C   | D  | C  | D  | A  | C  | C  | A  | B  | D  |
| 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| A   | C  | A  | B  | C  | C  | B  | B  | A  | C  |
| 21  | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| C   | A  | A  | D  | D  | B  | B  | A  | C  | D  |
| 31  | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| D   | C  | A  | B  | D  | C  | C  | D  | C  | D  |