



SCHOLASTIC COUNCIL FOR ACADEMIC EXCELLENCE

The All India Scholastic Quest Olympiads

Time: 45 minutes

Scholastic Science Olympiad – Class 7

Total Marks: 40

Paper code: S-7901/17

(Total 3 pages)

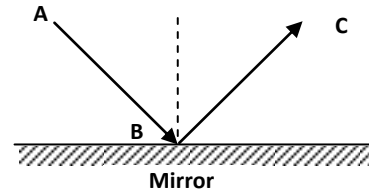
- Group of similar cells which perform a specific function is called _____
a) cell group b) tissue c) organ d) organism
- Which one of the following is not an organ?
a) kidney b) liver c) blood d) stomach
- Which of the following organisms performs anaerobic respiration?
a) fish b) frog c) yeast d) amoeba
- Identify the correct match.
a) Circulatory system - liver b) Respiratory system - brain
c) Excretory system - gall bladder d) Digestive system – small intestine
- Which system transports nutrients to various cells in the human body?
a) respiratory b) excretory c) nervous d) circulatory
- A large muscular sheet which forms the floor of the chest cavity is called _____
a) lungs b) liver c) stomach d) diaphragm
- An earthworm respire through _____
a) skin b) gills c) lungs d) spiracles
- Which gas is present in greater proportion in exhaled air than in inhaled air?
a) Carbon dioxide b) Oxygen c) Argon d) Nitrogen
- A boy is standing in an open ground with the sun shining brightly. At which of the following times is the length of the boy's shadow likely to be smallest in length?
a) 7:30 am b) 11 am c) 12 noon d) 5 pm
- Which of these can be called a luminous body?
a) diamond b) sun c) earth d) gold
- If you hold the following letters in front of a mirror, how would the letters appear in reflection seen in the mirror?
a) ACMWP b) ACWMP c) MW PAC d) PWMCA
- Raju is standing 5 metres in front of a mirror. He walks 2 metres towards the mirror. His image appears to be at what distance from him?
a) 2 metres b) 3 metres c) 5 metres d) 6 metres

P W M C A

13. A light ray getting reflected from a plane mirror is shown.

Ray AB is called the _____.

- a) Reflected ray
- b) Straight ray
- c) Incident ray
- d) Normal ray



14. The temperature at the bottom of a partially frozen lake is _____

- a) 0°C
- b) 4°C
- c) 0°F
- d) 100°C

15. Handles of cooling pans should be made of a material which _____

- a) melts easily on heating
- b) is a bad conductor of heat
- c) is a good conductor of heat
- d) has a good shiny surface

16. If a steel spoon is immersed in a cup of hot tea, the other end of the spoon also becomes hot. This is because of heat transfer by _____

- a) Conduction
- b) Radiation
- c) Convection
- d) Vibration

17. Which of the following is a unit of temperature?

- a) Celsius
- b) Calorie
- c) pascal
- d) newton

18. Heating a body causes a change in its _____

- a) shape
- b) colour
- c) weight
- d) temperature

19. A fire cracker explodes at a distance of around 700 metres from where a man is standing. Find the time after which the man would hear the sound of the fire cracker.

- a) around 1 sec
- b) around 2 sec
- c) around 5 sec
- d) around 7 sec

20. Umbra and penumbra are terms used to describe _____

- a) layers of skin
- b) parts of the heart
- c) types of plants
- d) shadows

21. A source of sound is always _____

- a) an object at high temperature
- b) a vibrating object
- c) an electric appliance
- d) a very small object

22. In the instrument shown in the picture on the right, the musical sound is produced by _____

- a) vibrating rod
- b) vibrating box
- c) vibrating strings
- d) vibrating membrane



23. An object which is positively charged has _____

- a) gained electrons
- b) lost electrons
- c) gained protons
- d) lost protons

24. Which of these substances is a liquid at room temperature and conducts electricity?

- a) pure water
- b) oil
- c) mercury
- d) copper

25. Which of the following materials does not allow flow of electric charge?

- a) gold
- b) brass
- c) tungsten
- d) bakelite

26. A device which is used to stop the current flowing in a circuit is called as a _____

- a) ammeter
- b) coil
- c) fuse
- d) switch



27. **An electric bulb works on the principle that:**
a) When current flows, the gas inside this bulb glows producing light.
b) Electric current increases the pressure inside the bulb which produces light.
c) Electric current flowing in the filament causes heating of the filament which glows.
d) none of these
28. _____ is a source of light which doesn't run on electricity.
a) CFL bulbs b) fluorescent lamp c) kerosene lamp d) torch
29. **During rainy season, wet clothes do not dry fast. This is because of _____**
a) greater humidity in air slows down evaporation b) lesser atmospheric temperature
c) clothes get wet in the rain d) greater oxygen in the atmosphere
30. **How many atoms are present in the molecule of the compound HNO_3 ?**
a) 3 b) 4 c) 5 d) 6
31. **The tea that we drink is actually _____**
a) an element b) a compound c) a mixture d) none of these
32. **When we put a bit of sugar in a glass of water and stir it with a spoon, the sugar dissolves. What type of change is this?**
a) chemical b) physical c) undesirable d) periodic
33. **Which of these is an example of a reversible change?**
a) wet paint dries b) wet cement sets c) wet clothes get dry d) dough changes into idli
34. **A marble floor should never be cleaned using _____**
a) water b) soap c) broom d) acid
35. **Substances used to check whether a given substance is acidic or basic are called _____**
a) alkalies b) neutral substances c) indicators d) mixtures
36. **Which of the following statement is correct?**
a) In a physical change new materials are formed. b) A chemical change can always be reversed.
c) In a chemical change new materials are formed. d) A chemical change is always very slow.
37. **Which of the following is a compound?**
a) oxygen b) bronze c) water d) mercury
38. **Curd turns sour after a few days. This is due to formation of _____**
a) hydrochloric acid b) nitric acid c) lactic acid d) formic acid
39. **Which of the following can be recycled and reused?**
1) metal waste 2) plastic toys 3) waste paper 4) leftover food
a) 1, 2 and 3 b) all 4 c) 1, 2 and 4 d) 1 and 2 only
40. **Animals like lizards who hatch from an egg are called _____**
a) oviparous b) viviparous c) amphibians d) aquatic

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B	C	B	C	D	D	C	C	A	C
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C	B	C	D	C	C	C	C	A	A