

INTERNATIONAL TALENT SEARCH EXAMINATION 2024 - 2025

CLASS- IV SUBJECT - SCIENCE

1. When a pin wheel is placed against wind, it begins to spin. This proves that

- A) moving air has energy
- B) pin wheel has life
- C) pin has energy
- D) moving air has no energy.

2. What form of energy can be obtained from the sun?

- i- Light
 - ii- Heat
 - iii-Sound
- B) Only I and II
 - C) Only I and III
 - D) Only II and III
 - E) I, II and III

3. What is the energy change that takes place when an electric bulb is switched on?

- A) Electrical energy is converted in to heat and light energy.
- B) Electrical energy is converted into chemical energy.
- C) Electrical energy is converted into sound energy.
- D) Electrical energy is converted into mechanical energy.

4. What is the energy change that takes place when television is switched on?

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5. In which of the following electrical energy is used to heat substances?

- A) Microwave oven
- B) Radio
- C) Television
- D) Fan

6. The burning of fire needs

- A) oxygen.
- B) carbon dioxide.
- C) nitrogen.
- D) water vapour.

7. Which of the following is NOT true regarding the properties of air?

- A) Air occupies space.
- B) Air exerts pressure.
- C) Air has no mass.
- D) Air cannot be seen.

8. When Suresh blew air into a balloon it expanded. This shows that

- A) air has no mass.
- B) air fills space.

INTERNATIONAL TALENT SEARCH EXAMINATION 2024 - 2025

- C) air has no weight.
- D) air is visible.

9. Asma took two balloons. She blew air with mouth in one balloon and she filled another balloon with the vapours of boiling water. She released the two balloons and observed that the balloon with the hot vapours rose higher than the other balloon. What did she learn from this experiment?

- A) Hot air is heavier than the cold air.
- B) Water vapour give energy to the balloon.
- C) Air likes hot balloons.
- D) Hot air is lighter and therefore rises higher.

10. When we blow air into a balloon it expands. What is the reason?

- A) Air is invisible.
- B) Air does not occupy space.
- C) Air has weight.
- D) Air exerts pressure.

11. Which of the following does NOT disturb the balance of gases in the air?

- A) Cutting down trees and forests.
- B) Releasing polluting gases into the air.
- C) Growing trees.
- D) Releasing smoke from the vehicles.

12. Which of the following changes weather?

- A) The sun
- B) Man
- C) Wood
- D) Television

13. Read the data given below and answer questions 8 and 9. Jasmine conducted an experiment. She took two bowls of sand and water and placed them in sunlight. After an hour she noted the temperatures. Then she took both into her house and placed them where there was no light. She noted the temperatures again after one hour and made the following observations.

Sand	Water	
Before placing them in sunlight	30oC	30oC
After placing them in sunlight for an hour	36oC	33oC
After placing inside the house for one hour	31oC	31oC

What is the increase in the temperature of the sand after being placed for an hour in the sunlight?

- A) 30oC
- B) 36oC
- C) 6oC
- D) 3oC

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INTERNATIONAL TALENT SEARCH EXAMINATION 2024 - 2025

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15. After being placed in sunlight for an hour, the air present above the sand bowl is __ than the air above the water bowl.
- A) warmer than
 - B) cooler than
 - C) equal in temperature
 - D) All of the above
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INTERNATIONAL TALENT SEARCH EXAMINATION 2024 - 2025

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25. Evaporation increases with

- A) an increase in the amount of water.
- B) a decrease in the temperature.
- C) a decrease in the area of exposure.
- D) an increase in the area of exposure.

26. Ramu took a glass of cold water from the refrigerator and placed it on a table. After a few minutes he observed water drops on the outer surface of the glass. Why did water drops form?

- A) Glass produced water droplets.
- B) The water in the glass seeped -out.
- C) Water vapour present in the air gets condensed.
- D) Water came out from the gaps present in the glass.

27. The fine droplets observed on the leaves of plants and grass during winter mornings are due to

- A) snow.
- B) hailstones.
- C) fog.
- D) dew drops.

28. Germs present in tap water can be killed by

INTERNATIONAL TALENT SEARCH EXAMINATION 2024 - 2025

- A) filtration.
- B) condensation.
- C) boiling.
- D) decantation.

29. The process by which water vapour changes into water is called

- A) filtration.
- B) condensation.
- C) sedimentation.
- D) decantation.

30. Frozen dew is called

- A) frost.
- B) rain.
- C) hail stone.
- D) water.

31. What does 'X' represent in the box given below?

Water → Water vapour

What does 'X' represent?

- A) Melting
- B) Condensation
- C) Evaporation
- D) Freezing

32. Which of the following represents 'X' in the given statement?

Ice → Xwater

- A) Heat
- B) Cool
- C) Force
- D) All of these

33. Why is the water cycle important to us?

- A) It helps in the recycling of oxygen from the Earth to the sky.
- B) It helps in the recycling of water from the Earth to the sky.
- C) It helps in the recycling of carbon dioxide from the Earth to the sky.
- D) It helps in the recycling of nitrogen from the Earth to the sky.

34. What processes is involved in the given statement?

Water → Steam / vapour

- A) Evaporation
- B) Melting
- C) Freezing
- D) Condensation

35. Wet clothes dry faster on a

- A) humid day.
- B) windy day.
- C) sunny and humid day.
- D) sunny and windy day.

36. Water droplets that can be seen on the grass in winter mornings is because of



INTERNATIONAL TALENT SEARCH EXAMINATION 2024 - 2025

- A) the secretion of water from the leaves.
- B) the rains that take place every night.
- C) the condensation of water particles in the air.
- D) the excessive absorption of water from the soil.

37. Which of the following causes wind to blow?

- A) The rising up of cold air.
- B) The rising up of warm air.
- C) The rising up of water vapour in the air.
- D) All of the above.

38. During winter it is warm

- A) in the mornings.
- B) in the evenings.
- C) in the after noon.
- D) All of the above.

39. Which of these falls in different shapes?

- A) Hailstone
- B) Fog
- C) Dew
- D) Snow flakes

40. Which of the following causes changes in weather?

- A) The Moon
- B) The Sun
- C) Air currents
- D) Rain

41. Condensed water vapour which can be seen on the ground after a very cold night is the

- A) mist.
- B) frost.
- C) fog.
- D) dew.

42. On cold winter morning water vapour condenses on dust particles to form

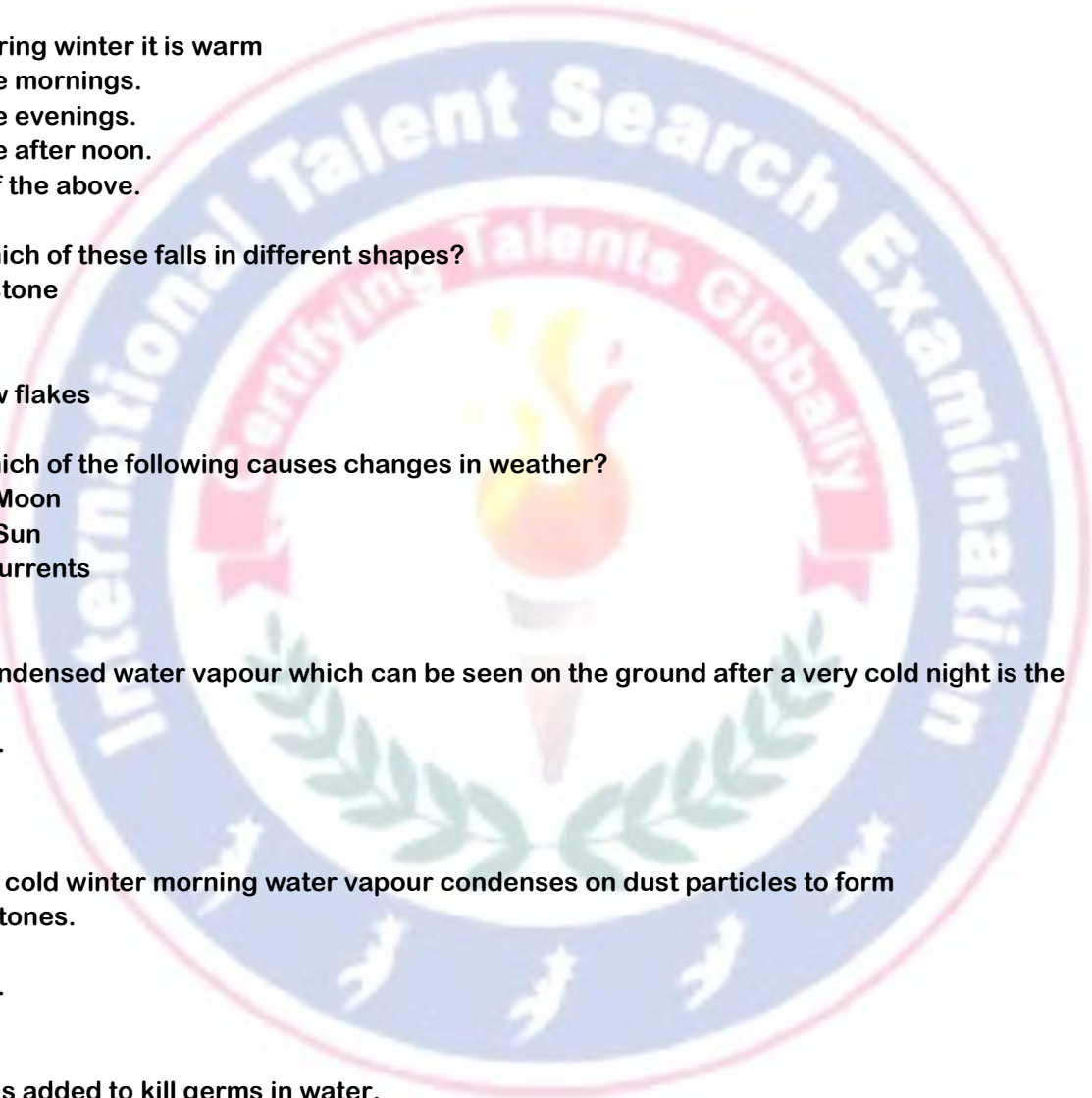
- A) hailstones.
- B) dew.
- C) frost.
- D) fog.

43. ___ is added to kill germs in water.

- A) Talcum powder
- B) Detergent powder
- C) Chlorine
- D) All of the above

44. In which of the following cases do you have to do more work?

- A) Pushing a heavy table
- B) Kicking a ball
- C) Stopping a rolling ball
- D) Pushing a cart



INTERNATIONAL TALENT SEARCH EXAMINATION 2024 - 2025

45. The force which pulls a body towards the earth is called
- A) friction.
 - B) gravity.
 - C) tension.
 - D) collision.

