

INTERNATIONAL TALENT SEARCH EXAMINATION 2024 - 2025

CLASS - V SUBJECT - SCIENCE

- Which of the followings are example of levers.
(i) Scissors (ii) bottle opener (iii) nail cutter, (iv) forceps.
A) (i) and (iv)
B) (ii) and (iv)
C) (i), (ii) and (iii)
D) (i), (ii), (iii), (iv)
- In wheel barrow, which two simple machine mechanism is utilized to make the work easier.
A) An inclined plane and a pulley.
B) A wheel and axle and wedge
C) Gears and wheels.
D) A wheel and axle and lever
- Consider the following statements
Statement I: Work is done when book is pushed across the table.
Statement II: Work is done when a heavy wall is pulled.
Which of the following is correct about the statements?
A) Statement I is true and II is false
B) Statement I is false and II is true
C) Both the statements are true
D) Both the statements are false
- Which of the following form of energy is required to move the wheeled trolley?
A) Mechanical
B) Electrical
C) Solar
D) Heat
- While pulling the sledge in snow, which type of force comes in action?
A) Heat
B) Pressure
C) Friction
D) Energy
- When a ball is thrown in the air upward it comes down after some time, because of
A) magnetic force
B) gravitational force
C) frictional force
D) divine force
- A sea-saw is an example of
A) Screw
B) First class lever
C) Second class lever
D) Third class lever
- What is the unit of measurement of energy?
A) Joule

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- B) Newton
- C) Kilowatt
- D) None of these

9. Which of the following activities involves the use of lever

- (i) Using your arm to lift a hand bag
 - (ii) Using scissor to cut clothes
 - (iii) Using a wheel barrow to transfer tool
- A) (i) and (ii) only
 - B) (i) and (iii) only
 - C) (ii) and (iii) only
 - D) All of these

10. The lid of a jar is which kind of simple machine

- A) Ramp
- B) Pulley
- C) Screw
- D) Wedge

11. Regarding lever, select the correct statement from the given below

- (i) In beam balance, fulcrum is in the middle
 - (ii) A nutcracker is an example of third class lever
 - (iii) In tongs the, the fulcrum and the load are at two ends
 - (iv) Sea-saw is an example of first class lever
- A) (i), (iii) and (iv)
 - B) (ii) only
 - C) (iii) and (iv)
 - D) (i) and (ii)

12. While loading of boxes on trucks ramp is used. The surface of the ramp is made smoother because, there would be less

- A) mass in box
- B) gravity pulling on the box
- C) Friction opposing the box
- D) distance to push the box

13. Fulcrum is a

- A) pushing force
- B) Pulling force
- C) the fixed point of a lever
- D) An object

14. A ship is heavier than an iron nail, but floats on the water surface, while nail sinks, because

- A) iron nail is thin and ship has large surface area
- B) iron nail is small and ship is big
- C) the ship has to save the life of many people
- D) The weight of ship becomes equal to the weight of water it displaces

15. What is an effort in lever action?

- A) The fixed point of the bar
- B) The object that is removed
- C) The force applied to move the load

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D) None of these

16. The head of an axe is wide at one end and pointed at the other end to help in cutting of wood.

Here the head of the axe is an example of

- A) an inclined plane
- B) a pulley
- C) a wheel and axle
- D) a wedge

17. The process which allows insoluble particle to settle down in a solution is called

- A) filtration
- B) decantation
- C) sedimentation
- D) None of these

18. You have been given a mixture of iron fillings, sand and sugar. You have to separate them by

- (i) use of magnet
- (ii) making solution with water
- (iii) evaporation
- (iv) filtration

What will be correct sequence

- A) (i) → (ii) → (iv) → (iii)
- B) (i) → (ii) → (iii) → (iv)
- C) (iv) → (iii) → (ii) → (i)
- D) (ii) → (m) → (i) → (iv)

19. A cold drink bottle mouth was capped with a balloon. Which action can lead to increase in the size of balloon?

- A) Putting in front of fan
- B) Putting in normal water
- C) Putting in cold water
- D) Putting in hot water

20. Which of the following statements is true?

- (i) Chlorination makes the water safe for drinking
- (ii) Chlorinated water is made by distillation
- (iii) Water must be boiled for at least 10 minutes to make it fit for drinking
- (iv) Potassium paramagnet is also used to kill germs in water

- A) (i), (iii), and (iv)
- B) (i), (ii), and (iii)
- C) (i), (ii), (iii), and (iv)
- D) (ii), (iii), and (iv)

21. Which of the following protect us from harmful rays of sun?

- A) Ozonosphere
- B) Stratosphere
- C) Ionosphere
- D) Hydrosphere

22. Oxygen is needed in which process?

- (i) Respiration
- (ii) Burning

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(iii) Photosynthesis

- A) (i), and (iii)
- B) (ii), and (iii)
- C) (i), and (ii)
- D) (i), (ii), and (iii)

23. Air pressure is measured with an instrument, called

- A) Manometer
- B) Ammeter
- C) Hydrometer
- D) Barometer

24. Which of the following changes can be possible by heating?

- A) Liquid water changes to ice
- B) Water vapour changes to liquid
- C) Ice changes to liquid water
- D) Water vapour changes to ice

25. Which of the following is not used for making drinking water?

- A) Sedimentation
- B) Sublimation
- C) Chlorination
- D) Boiling

26. Ozone layer protects us from

- A) LASER
- B) Cosmic Rays
- C) U.V. Rays
- D) All of these

27. Ramesh take a glass of water, added a spoonful of sugar and pinch of salt and also squeezed the juice of a lemon into it. After stirring it properly it was filtered with a strainer. What will be left in the strainer?

- A) Sugar
- B) Salt
- C) Lemon seed
- D) None of these

28. Which of the following will not dissolve in water?

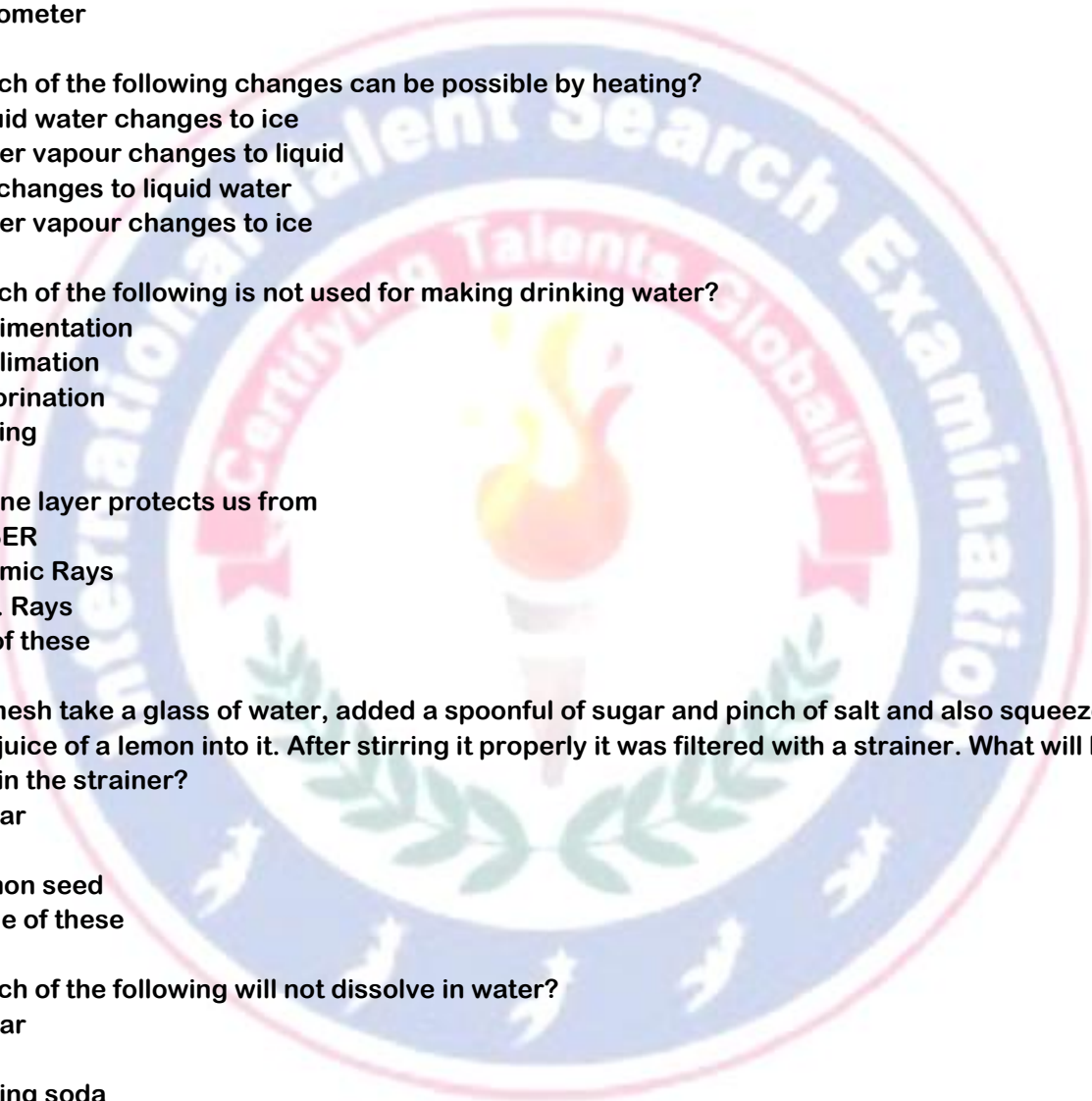
- A) Sugar
- B) Salt
- C) Baking soda
- D) None of these

29. When we go up in the sky. The atmospheric pressure will

- A) Increase
- B) Decrease
- C) Remain Unchanged
- D) Variable

30. Clouds are formed in which layer of atmosphere?

- A) Lithosphere



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- B) Ionosphere
- C) Troposphere
- D) Stratosphere

31. Match the Column

- | | I | | II |
|-----|--------------|-------|-------|
| (a) | Lithosphere | (i) | Air |
| (b) | Ionosphere | (ii) | Ozone |
| (c) | Atmosphere | (iii) | Soil |
| (d) | Stratosphere | (iv) | Water |
- A) (a) - (iii), (b) - (iv), (c) - (i), (d) - (ii)
B) (a) - (i), (b) - (ii), (c) - (iii), (d) - (iv)
C) (a) - (ii), (b) - (iv), (c) - (i), (d) - (iii)
D) (a) - (i), (b) - (ii), (c) - (iii), (d) - (i)

32. The part of earth that contains water is called

- A) Atmosphere
- B) Lithosphere
- C) Hydrosphere
- D) Troposphere

33. Atmosphere is the part of earth which consists of

- A) Water
- B) Air
- C) Land
- D) All of these

34. Water is known as the universal solvent because

- A) it has many uses
- B) it can remove all kind of dust
- C) It is the medium in which all body metabolism happen
- D) It can dissolve many substances

35. The amount of water vapour in the air is called

- A) condensed air
- B) wet air
- C) humidity
- D) All of these

36. Rain water harvesting is

- A) Using rain water for irrigation
- B) Collecting rain water for later use.
- C) Water cycle maintenance
- D) Taking bath in rain water and dancing

37. Regarding air, which of the following statement(s) is / are true

- (i) Air has no mass
 - (ii) Air is needed for burning
 - (iii) Air exerts pressure from all sides and on everything
- A) (i) and (ii)
B) (i) and (iii)
C) (ii) and (iii)

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D) (i), (ii) and (iii)

38. Which of the following process is component of water cycle?

- A) Condensation
- B) Evaporation
- C) Both a and b
- D) None of these

39. Air exerts pressure can be shown by which of the following example?

- A) Swimming in ocean
- B) Rain falling on ground
- C) Flowing of air through tree leaves
- D) Sucking up of water using straw

40. In health care system medicines are injected using syringes or needle. Filling of medicine in syringe is due to

- A) Liquid pressure
- B) Air pressure
- C) Piston pressure
- D) Needle pressure

41. When we put a block of wood in fresh water it floats on it. What will happen if the same block is dropped in water from ocean (Saline) water?

- A) Settle down at the bottom
- B) Will be at the same level
- C) Float at higher level
- D) None of these

42. Air and water are found on which planet?

- A) Mars
- B) Jupiter
- C) Earth
- D) All of these

43. Which of the following statement(s) is / are incorrect?

- (i) All weather changes are seen in stratosphere.
- (ii) Ozone layer is located in stratosphere.
- (iii) In thermosphere temperature begins to fall as we go up.
- (iv) Space shuttle orbits in thermosphere

- A) (i) and (ii)
- B) (i) and (ii)
- C) (i) and (ii)
- D) (i) and (iv)

44. Match the column

Column I	Column II
(A) Lithosphere	(I) Ozone
(B) Atmosphere	(II) Water
(C) Stratosphere	(III) Land
(D) Hydrosphere	(IV) Air

- A) (A) - (III), (B) - (IV), (C) - (I), (D) - (II)
- B) (A) - (II), (B) - (IV), (C) - (I), (D) - (III)

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- C) (A) - (I), (B) - (II), (C) - (III), (D) - (I)
- D) (A) - (IV), (B) - (III), (C) - (II), (D) - (I)

45. Which of the following is a rock?

- A) Marble
- B) Basalt
- C) Granite
- D) All of these

