

5. Sometimes a sticky yellow layer of germs develop on teeth. This is called.

- a) plaque
- b) cavity
- c) caries
- d) microbe



6. From the mouth of water :

"I stay liquid in your room

but I freeze when you cool me to (1) _____.

Boil me, I will disappear as steam at (2) _____.

here (1) and (2) respectively are

- a) 0°C, 32°F
- b) 100°C, 100°F
- c) 32°F, 100°C
- d) 32°C, 100°F

7. A : Matter can absorb or give out heat to change its state.

B : All substances exchange equal amount of heat to change their state.

- a) Both A and B are correct.
- b) Both A and B are incorrect.
- c) Only A is correct.
- d) Only B is correct.

8. If a child is bitten by a dog, the doctor gives injection to prevent the occurrence of

- a) rabies
- b) cancer
- c) diabetes
- d) hypertension

9. State true/false for the following statement :

- The presence of hemoglobin in blood makes it appear green.
- Heart pumps blood from sunrise to sunset and sleeps at night.
- Our heartbeat is the rhythmic contraction of heart muscles.
- Heart, blood and blood vessels constitute circulatory system.

- a) FFTT
- b) TTFF
- c) TFTF
- d) FTTF

10. Match the columns in the following

- | | |
|-----------------------|-----------------------------|
| p. Blood vessels | t. Fluid connective tissues |
| q. Heart | u. Tubes that carry blood |
| r. Blood | v. It transports substance |
| s. Circulatory system | w. Organ which pumps blood |
- a) p-u, q-w, r-t, s-v
 - b) p-w, q-u, r-t, s-v
 - c) p-u, q-w, r-v, s-t
 - d) p-v, q-w, r-t, s-u

11. State true / false among the following

- a) Turtles lay their eggs by digging holes in the ground.
- b) Incubation of eggs by hens gives them enough air to cool down.
- c) Pupa and nymph can undergo moulting i.e. shed their old skin.
- d) Tadpole has a tail and lungs.

- a) TFTF b) TTFE c) FTFT d) FFTT

12. The animal shown here is an example of

- a) parasite b) scavenger
- c) omnivore d) arboreal animal



Leech

13. The cyclone 'Remal' recently hit the eastern coast of India. It was predicted well in advance with the help of pictures clicked by

- a) news reporters b) journalists
- c) tourists d) artificial satellites

14. Atomic energy is obtained by splitting a heavy atom into smaller ones. This energy is used for

- a) making atom bomb b) generating electricity
- c) both a) and b) d) running trains

15. In a solar cell, _____ energy is converted into _____ energy.

- a) heat, light b) light, heat
- c) light, electrical d) electrical, light

SECTION B

EVERYDAY SCIENCE

16. When a green plant is kept in dark for a few days then it gets

- a) tanned b) destarched
- c) variegated d) destroyed

17. Chintu is very fond of having aquarium. He sees some plants are kept inside aquarium to absorb exhaled gases of fish. These plants could be

- a) tape grass b) pond weed
- c) both a) and b) d) none of these

18. Observe a cactus plant carefully. Which of these features will not be found in it?

- a) green stem which can do photosynthesis
- b) fleshy stem with a waxy coating
- c) leaf with stomata on the top
- d) deep roots



Cactus plant

19. Given below is a sequence of blank spaces. Identify the correct word for each blank : Deficiency of iodine in body causes (A)_____. If we have lack of (B)_____, we can have scurvy in gums we must take enough (C)_____ in food to avoid getting rickets (bent bones) or osteoporosis.

- | | | |
|-----------------------|---------------|----------------|
| a) (A) goitre | (B) Vitamin C | (C) calcium |
| b) (A) blurred vision | (B) Vitamin D | (C) phosphorus |
| c) (A) lack of energy | (B) Vitamin A | (C) iron |
| d) (A) pale skin | (B) Vitamin B | (C) sodium |

20. We use this instrument in laboratories to observe

- a) stars
- b) food processing
- c) microbes
- d) tooth decay



21. After taking a hot shower bath, Radha saw that her bathroom mirror had become foggy. This would happen because

- a) vapour condensed on mirror glass
- b) vapour deposited on mirror glass
- c) vapour froze into ice particles
- d) none of these

22. If a person suffers first degree burns, then what first aid should be given to him/ her?

- a) The wound should be washed with soap and warm water.
- b) Keep the burnt area under cold running water for some time.
- c) Tie a tight band over the wound.
- d) Apply an antiseptic lotion and tie a bandage.

23. The gas sprayed by a fire extinguisher on a burning object is

- a) oxygen
- b) carbon dioxide
- c) water vapour
- d) nitrogen



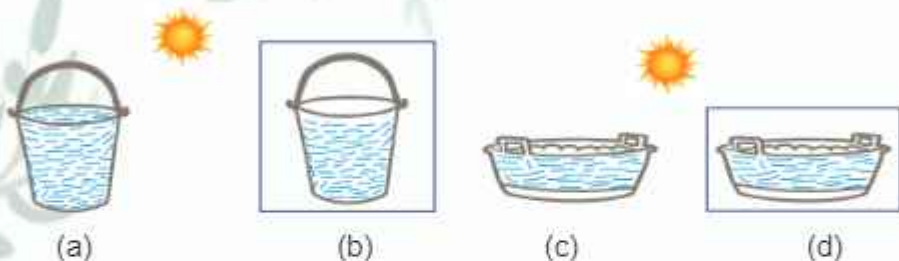
24. Touch your wrist along the thumbline with your fingers. The throbbing you feel is called

- | | |
|--------------|----------------|
| a) pulse | b) micturition |
| c) heartbeat | d) heart rate |

25. In the dark and damp corners of a store room, Rohan found some eggs. These eggs could belong to

- | | | | |
|--------------|---------|----------------|---------|
| a) butterfly | b) moth | c) cockroaches | d) bats |
|--------------|---------|----------------|---------|

26. Water was kept in four containers as shown below. In which of these evaporation rate will be maximum?



27. The wet grass in winter morning dries up in a few hours. Which of these process represent this observation?

- a) dew → (evaporate) → frost
- b) frost → (melts) → dew
- c) dew → (evaporate) → vapour
- d) frost → (melts) → vapour

28. In which of the following cases no work is being done?



d) all of these

29. A rolling football stops on its own after travelling some distance. It happens because

- a) There is a force opposing its motion.
- b) It was not hit hard enough.
- c) It was very heavy.
- d) It was acted by earth's gravity.

30. People using wheelchair can easily move around in public places and can use public transport too, using

- a) lever
- b) wedge
- c) inclined plane
- d) screw

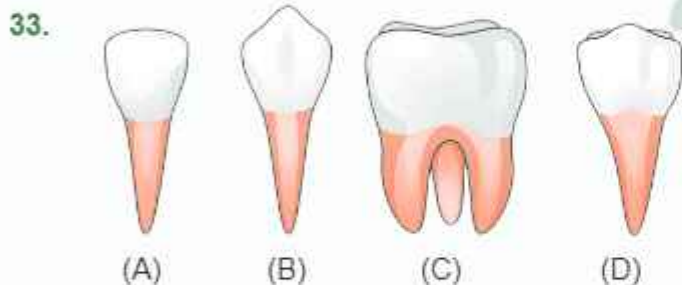
SECTION C

MINDATHON LITTLE SCIENTISTS

31. Plants of hilly areas need to withstand snowfall, rain and harsh weather. This could even damage their leaves. In such plants

- a) leaves are modified into spines
- b) leaves are broad and flat
- c) leaves are needle shaped
- d) leaves form cones

32. **A : Water helps in removal of waste from the body.**
B : Our body is approximately 71% water.
- a) Both A and B are correct. b) Both A and B are incorrect.
 c) Only A is correct. d) Only B is correct.



In the above figures incisors and molars are respectively

- a) A and B b) B and C
 c) C and D d) A and C
34. **The animal which swings through branches with its long and curled tail is**



- a) Macaque b) Gorilla
 c) Koala bear d) Giant panda
35. **Identify the form of energy possessed by all of these :**



- a) mechanical energy
 b) heat energy
 c) chemical energy
 d) muscular energy

