**SINDHI HIGH SCHOOL, HEBBAL**

**II Periodic Test [2023-24]**

**Subject: Science**

**Answer Key**

**Class: VIII Max. Marks: 50**

**Date:21 .12.202**

**No. of sides:**

1. (d) B and D (1)

2. (b) equal force is being applied in the opposite direction. (1)

3. (b) A sharpened pencil tip (1)

4. (a) ignition temperature is more than room temperature. (1)

5. (b) charcoal (1)

6. (b) Water is heavier than oil or petrol and so remains below the oil layer which continues to burn.

(1)

7. (a) Sodium benzoate (1)

8. (b) not necessary to follow good sanitary habits. (1)

9. (c) A is true, but R is false. (1)

10. (a) Both A and R are true, and R is the correct explanation of the assertion. (1)

11. (a) Both A and R are true and R is the correct explanation of A (1)

12. A is true, but R is false. (1)

**Section B**

13. Any one example from gravitational, electrostatic or magnetic force can

be given (1+1)

Forces which act on objects without being touched visibly are called

non-contact forces.

14. (a) Frictional force

(b) Atmospheric pressure

(c) Muscular force

(d) Newton (½ x 4)

15. Communicable diseases are microbial diseases that can spread from an infected person to a healthy person through air, water, or other physical contacts; e.g., cholera, tuberculosis, , Typhoid, citrus canker, anthrax. (any two)

(1+1)

16. By adding sugar in the food item, we reduce its moisture content and hence, it stops the growth of the microorganisms.

By adding salt in the food item, it stops the growth of the microorganisms. (1+1)

**Section C**

17. (a) As the deapth increases water pressure also increases. Therefore at the downstairs water comes

out with more pressure than in the upstairs.

(b) Air pressure decreases as the altitude increases. so at the higher altitudes pressure inside the

fountain pen is more than outside pressure, so pen leaks due to pressure difference.

(c)Since there is no atmosphere in the space, atmospheric is almost zero. Pressure inside the body

increases which leads to death of the person. So astronauts wear special suits. (1+1+1)

18. Rapid combustion- substance burns instantly and produce huge amount of heat and light. ( 1 )

Example- burning of LPG ( ½ )

Spontaneous combustion- substance suddenly catches fire without the supply of heat or friction.(1)

Example- forest fire, burning of sodium. ( ½ )

19. (a) The methods used for prevention of spoiling of food by the microbes

is called food preservation. The food will get spoiled and emit bad smell, change taste and

colour and converted to toxic substance. (1+1)

(b) Refrigeration slow down the growth of the microbes and prevent

food spoilage. (1)

20.(a) A. Nitrogen fixing bacteria & blue green algae fix atmospheric nitrogen

B. Compounds of nitrogen in the soil.

C. Animals eat plants.

D. Bacteria trun compounds of nitrogen into gaseous nitrogen. ( ½ x 4 )

(b) If Step D is missing in the nitrogen cycle compounds of nitrogen will

not recycled back to the atmosphere and there is imbalance in the

nitrogen gas. (1)

**Section D**

21. (a) \* Take an empty plastic bottle or a cylindrical container. Drill four holes near the bottom of the

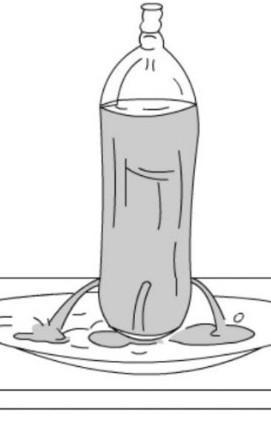
bottle. Make sure that the holes are at the same height from the bottom.

\* Fill the bottle with water. We observe that streams of water coming out of the holes falls at

the same distance from the bottle. This shows that liquids exert equal pressure at the same

deapth.

(2 + dia 1)



(b)

Force = Pressure X Area

Area = 140/ 100x100 = 0.014 m2

Force = 15 x 0.014 = 0.210 N (½ X 4)

22. (a)Senior fireman stopped the junior from using a water hose because water is a conductor of electricity and can cause electrocution and sever electrical shock to the person operating the hose.

Senior would have used a carbon dioxide fire extinguisher or a dry chemical extinguisher suitable for electrical fires. These extinguishers do not conduct electricity. (2)

(b) \*Pooja should immediately stop, drop and roll on the floor to extinguish the fire.

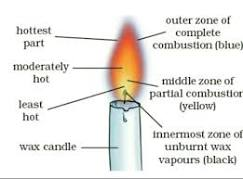
\*She should never run, as it will cause the fire to spread. (2)

(c) Wood on burning release unburnt carbon particles which causes air pollution causing respiratory diseases. (1)

(usage of wood leads to deforestation on a large scale)

**Section E**

23. (i) (dia 1 +any two labellings 1)



(ii) outer most zone. It is the hottest zone where complete combustion takes place. (1)

(iii) In the dark zone candle produce unburnt carbon particles called soot but combustion of petrol does

not produce soot, Petrol has high calorific value ( any one reason) (1)

24. (i) Virus and female aedes mosquito (1)

(ii) Vector / carrier born disease. (1+1)

use mosquito net and repellents. Spray insecticides and control breeding ground by preventing

water stagnation in the surroundings. ( any two)

(iii) Malaria, plasmodium (1)