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SA-1MODEL PAPER-1

Physical Science

8th Class Marks 40

I. Choose the correct answer. 10×1=10M

- The frictional force exerted by Fluids is also called ()
- A) Drug B) Drag C) Drop D) Drip
2. Four children were asked to arrange forces due to rolling, sliding and static frictions in an increasing order. Their arrangements are given below. Choose the correct arrangement. ()
- A) rolling, static, sliding B) static, rolling, sliding
C) rolling, sliding, static D) sliding, static, rolling.
3. Lubrication of moving surfaces ()
- A) remove friction B) reduces friction C) increases friction D) has no effect on friction.
4. Atmospheric pressure is measured by ()
- A) Barometer B) manometer C) screw gauge D) Anemometer
5. PCRA stands for ()
- A) Petroleum Conservation Research Association
B) Petrol Conservation Research Association
C) Petroleum Control Research Association
D) Petroleum Corporation Research Association
6. Which of the following is a non-renewable source of energy ()
- A) Solar energy B) wind energy C) Coal D) hydroelectric energy

7. Boojho and Paheli performed experiments taking similar bulbs and cells but two different solutions A and B as shown in the figure.

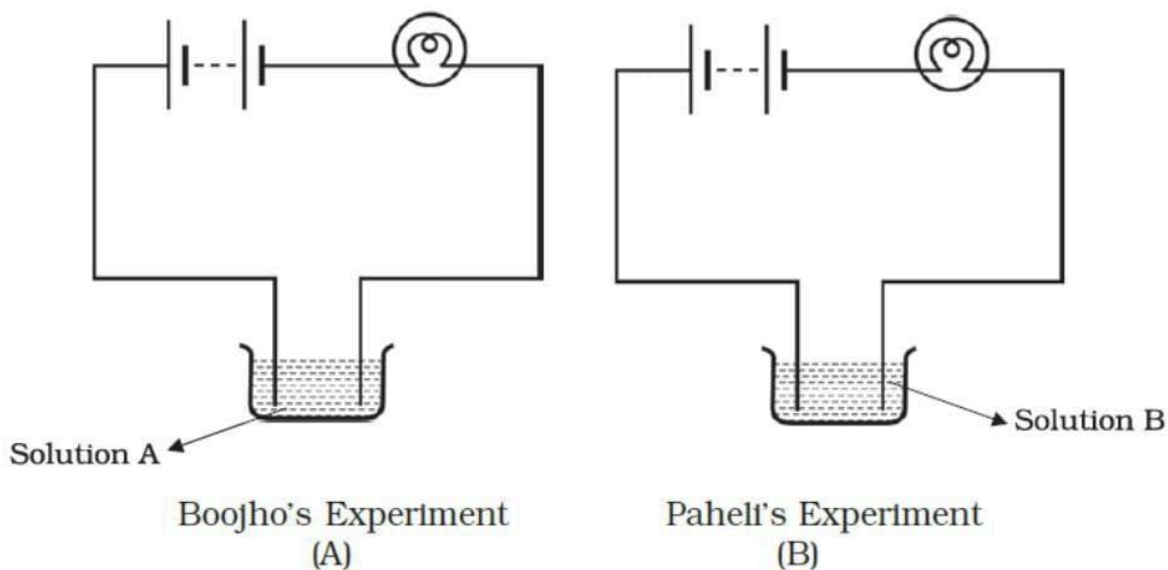


Fig.14.1

They found that the bulb in setup A glows more brightly as compared to that of setup B.

You would conclude that ()

(A) solution A is better conductor than solution B

(B) solution B is better conductor than solution A

(C) Both solutions are equally conducting

(D) the current flowing through the circuits in the two setups cannot be compared in this manner.

8. Not a use of Electroplating ()

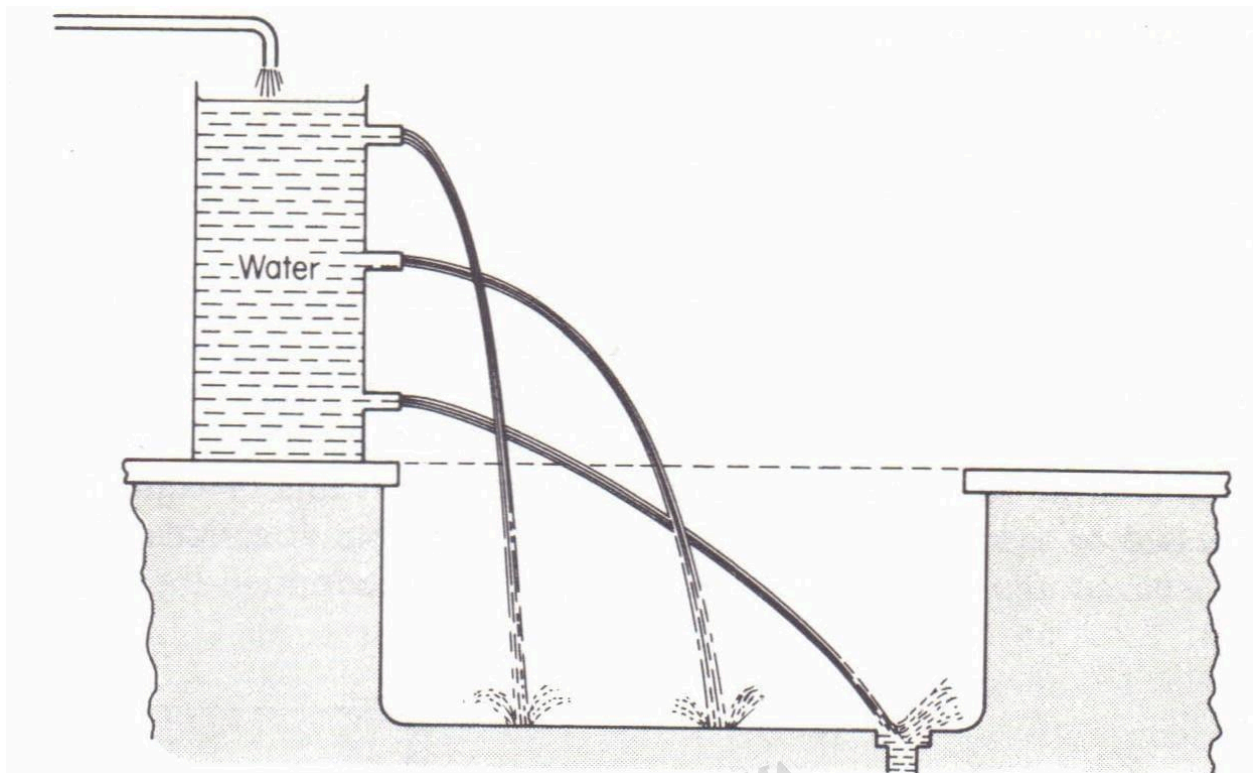
A) fine finish to the surface B) shining appearance C) metals to become a hard D) protect metals against corrosion

9. Which of the following are contact forces?

i) Force of friction ii) gravitational force iii) electrostatic force iv) muscular force ()

A) i & iii B) ii & iii C) ii & iv D) i & iv

10.



From the above diagram, we conclude that ()

- A) Pressure increases with depth
- B) Pressure decreases with depth
- C) Pressure is independent of depth
- D) Liquids exert equal pressure at all.

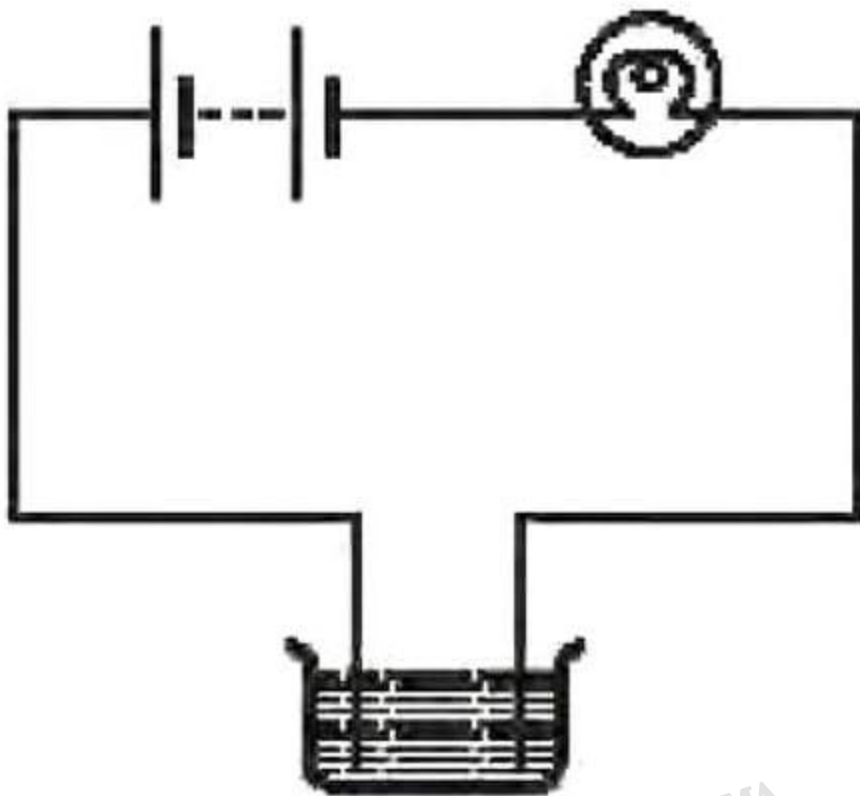
II. Answer the following questions.. 3×2=6M

11) Complete the following table?

Action	Type of friction comes into play
1. Fish swims in water	
2.A book on the table	
3.Tyres skid on the road	
4.A suitcase moves on wheels	

12) Is it safe for the electrician to carry out electrical repairs outdoors during heavy downpour? explain.

13) The bulb does not glow in the setup shown in the figure. List any two possible reasons.



III. Answer the following questions.. $2 \times 4 = 8M$

14) Write the abbreviation of CNG and LPG.

What are the advantages of using CNG and LPG as fuels?

15. Explain why sliding friction is less than static friction?

IV. Answer the following questions.. $2 \times 8 = 16M$

16A) Give examples to show that friction is both a friend and a foe.

(OR)

16B) Differentiate between contact forces and non-contact forces.

17A) Define Electroplating. Explain with an activity.

(OR)

17B) Explain the Formation of petroleum.

KEY

1.B 2.C 3.B 4.A 5.A 6.C 7.A 8.C 9.D 10.A