



विद्या सर्वार्थ साधिका

ANANDALAYA  
PERIODIC TEST -3  
Class: VIII

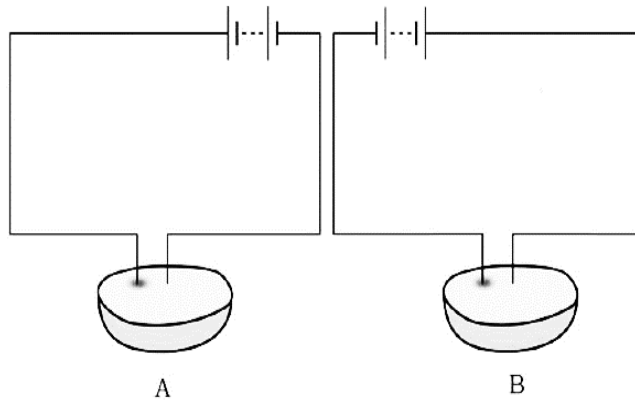
Subject : Science  
Date : 04-01-2024

MM: 30  
Time: 1 Hr. 30 min.

**General Instructions:**

- All questions are compulsory. There are 17 questions in this question paper.
- Q. No. 1 to 10 are objective type questions and carry 1 mark each.
- Q. No. 11 to 13 are short answer type questions and carry 2 marks each.
- Q. No. 14 to 16 are also short answer type questions and carry 3 marks each.
- Q. No. 17 is a long answer question and carries 5 marks.

1. The process of transfer of charge from a charged object to the earth is called \_\_\_\_\_. (1)  
(A) conducting (B) charging (C) earthing (D) insulating
2. The earth's plate responsible for causing earthquakes is \_\_\_\_\_. (1)  
(A) the crust of the earth (B) the mantle of the earth  
(C) the inner core of the earth (D) the outer core of the earth
3. An electroscope is a device which is used to find if an object is \_\_\_\_\_. (1)  
(A) charged (B) free of cracks (C) magnetic (D) hot
4. Which one of the following solutions will not conduct electricity? (1)  
(A) Lemon water (B) Tap water (C) salt water (D) Pure water
5. Observe the following figure and select the correct option. (1)

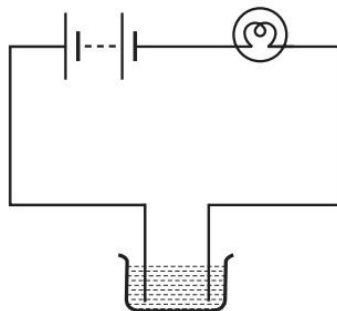


- (A) Figure B shows the correct observation.  
(B) Figure A shows the correct observation.  
(C) Figure A and B both show the correct observation.  
(D) Potato cannot conduct electricity so A and B both show wrong observation
6. A tadpole develops into an adult frog by the process of \_\_\_\_\_. (1)  
(A) embryogenesis (B) metamorphosis (C) fertilization (D) budding

Q.7 and Q.8 are assertion and reasoning type questions. Select the appropriate option from the below.

- (A) Both Assertion and Reason are true and Reason is the correct explanation of Assertion.
- (B) Both Assertion and Reason are true but Reason is NOT the correct explanation of Assertion.
- (C) Assertion is true but Reason is false
- (D) Assertion is false and Reason is also false.

7. Assertion: The charge acquired by a glass rod when it is rubbed with silk is positive. (1)  
Reason: When rubbed with silk, the glass rod loses some electrons.
8. Assertion: Chromium is not used in complete preparation of an object but it is only used for electroplating. (1)  
Reason: It is one of the cheaper metal available in the market.
9. State whether the following are True or False: (1)  
(i) Tremors on the earth can also be caused by the eruption of a volcano.  
(ii) The process of electric discharge cannot occur between clouds and the earth.
10. Will the solution of sugar in distilled water conduct electricity? Explain in short. (1)
11. What is a lightning conductor? How is it installed in a tall building? (2)
12. Define asexual reproduction. Briefly explain two methods of asexual reproduction in animals. (2)
13. Give two differences between zygote and foetus. (2)
14. Mention three precautions that you will take to protect yourself if an earthquake strikes when you are inside the house. (3)
15. (a) The bulb does not glow in the setup shown in the following figure. Also, the battery is charged and connections are proper. List out the possible reasons with explanation. (3)



(b) Define: Electroplating

16. An electric current is passed through a conducting solution. Explain any three possible observations. (3)
17. a) Differentiate between ovipary and vivipary giving suitable examples. (5)  
b) Draw a simple diagram of human sperm and label the following parts:  
i. The structure that helps in penetrating the egg cell.  
ii. The cellular part containing DNA.  
iii. The structure that helps in movement.