



विद्या सर्वार्थ साधिका

ANANDALAYA
PERIODIC TEST – 1
Class: VIII

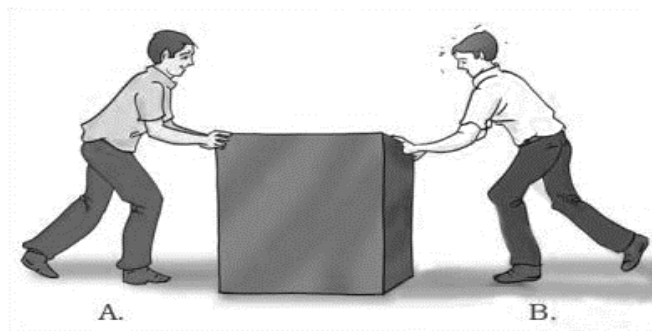
Subject: Science
Date : 19-07-2024

MM : 40
Time: 1 Hr. 30 min.

General Instructions:

1. There are 21 questions in this question paper. All questions are compulsory.
2. Q. No. 1 to 12 are objective type questions and carry 1 mark each.
3. Q. No. 13 to 15 are short answer type questions and carry 2 marks each.
4. Q. No. 16 to 19 are also short answer type questions and carry 3 marks each.
5. Q. No. 20 and 21 are long answer questions and carry 5 marks.

1. (1)



In the figure, two boys A and B are shown applying force on a block. If the block moves towards your right, which one of the following statements is correct?

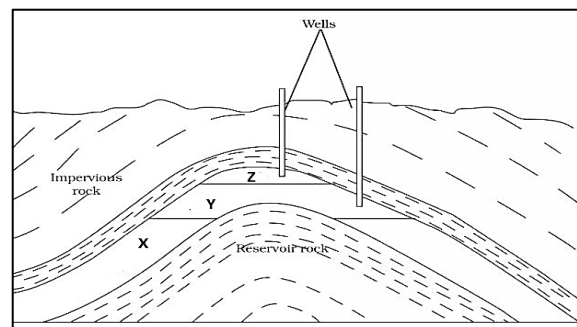
- (A) Magnitude of force applied by A is greater than that of B.
 - (B) Magnitude of force applied by A is smaller than that of B.
 - (C) Net force on the block is towards A.
 - (D) Magnitude of force applied by A is equal to that of B.
2. Which one of the following forces is a contact force? (1)
(A) force of gravity (B) force of friction (C) magnetic force (D) electrostatic force
 3. The fraction of petroleum used in electrical generators is _____. (1)
(A) petrol (B) kerosene (C) paraffin wax (D) diesel
 4. Which of the following can be prepared in laboratory from dead organisms: (1)
(A) coal (B) petroleum (C) natural gas (D) none of these
 5. Combine is an automated machine mainly employed for _____. (1)
(A) sowing of seeds and harvesting the crops
(B) harvesting the crops only
(C) sowing of seeds and threshing
(D) harvesting and threshing the crops
 6. Name the gases produced when: (1)
(i) coal is heated in the absence of air. (ii) coal is burnt in the air.
 7. What is the difference between coal and coke? (1)
 8. Define Pressure. (1)
 9. If a handful of seeds is given to you, how will you separate healthy seeds from damaged seeds? (1)

For question numbers 10 to 12, two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (A), (B), (C) and (D) as given below.

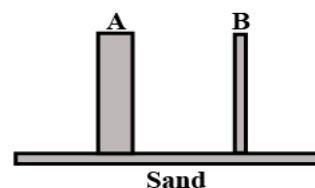
- (A) Both A and R are true and R is the correct explanation of A
- (B) Both A and R are true but R is not the correct explanation of A.
- (C) A is true but R is false
- (D) A is false and R is also false.

10. Assertion (A): Some mountaineers' nose bleed as they go to high altitude. (1)
Reason (R): As they go to high altitude the atmospheric pressure increases.
11. Assertion (A): Kerosene is a fossil fuel. (1)
Reason (R): Kerosene is not obtained as a fraction of fractional distillation of petroleum.
12. Assertion (A): Green gram is a kharif crop. (1)
Reason (R): Green gram is cultivated from September to October.
13. What is force? Give its SI unit. What are the effects of force applied on an object in its motion? (2)
14. List out the uses of coal tar. (Any four) (2)
15. As a biology activity, Rita had sown green gram seeds in the garden soil and watered them regularly by drip irrigation. She was asked to record her observations daily by her teacher. (2)
(a) Does this technique save water?
(b) What changes in the seed would be observed by Riya after a week?
16. Write an activity to show that the liquid pressure increases with depth. (3)

17. (a) The following is the schematic diagram of the mining of fossil fuel from between the rocks.
What does X, Y and Z represent?
(b) Write down the characteristics as well as any two uses of coke.



18. (a) List out any two measures given by PCRA for saving petrol and diesel. (3)
(b) 'Petroleum is also called 'black gold.' Comment.
19. Write any three differences between manure and fertilisers. (3)
20. (a) Two rods of the same weight and equal length have different thickness. They are held vertically on the surface of sand as shown in figure. Which one of them will sink more? Why? (5)



- (b) A block of dimension $2\text{ m} \times 1\text{ m} \times 3\text{ m}$ weighs 100 N . It is to be placed on a horizontal surface. How will you place it on the surface so that the pressure exerted on the surface is (i) the minimum and (ii) maximum? Calculate the pressure in each case.
21. (a) What will happen if the field is not ploughed before sowing the seeds? Write any two disadvantages. (5)
(b) How are perishable food items stored on a commercial scale?
(c) What are the different ways in which a farmer draws groundwater for irrigation?
(d) Fertilizers need not be added to the field on which leguminous plants are grown. Why?