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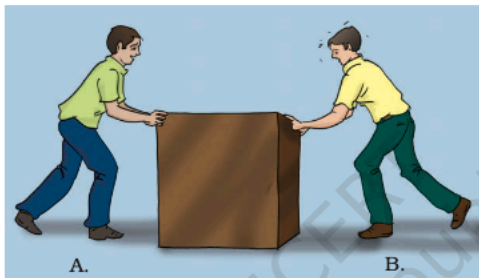


Fig. 11.1

In Fig 11.1, two boys A and B are shown applying force on a block. If the block moves towards the 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.



Fig. 11.2

In the circuit shown in Fig.11.2, when the circuit is completed, the hammer strikes the gong. Which of the following force is responsible for the movement of hammer?

- (a) gravitational force alone      (c) magnetic force alone
  - (b) electrostatic force alone      (d) frictional force alone
3. During dry weather, while combing hair, sometimes we experience hair flying apart. The force responsible for this is
- (a) force of gravity.      (c) force of friction.
  - (b) electrostatic force.      (d) magnetic force.
4. Fig.11.3 shows a container filled with water. Which of the following statements is correct about pressure of water?

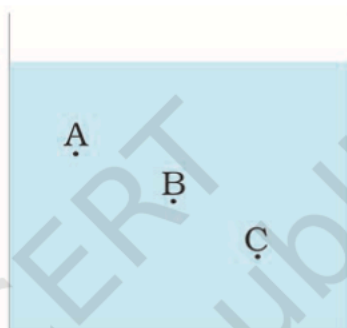


Fig.11.3

- (a) Pressure at A > Pressure at B > Pressure at C
  - (b) Pressure at A = Pressure at B = Pressure at C
  - (c) Pressure at A < Pressure at B > Pressure at C
  - (d) Pressure at A < Pressure at B < Pressure at C
5. Two objects repel each other. This repulsion could be due to
- (a) frictional force only
  - (b) electrostatic force only
  - (c) magnetic force only
  - (d) either a magnetic or an electrostatic force
6. Which one of the following forces is a contact force?
- (a) force of gravity      (c) magnetic force
  - (b) force of friction      (d) electrostatic force

7.

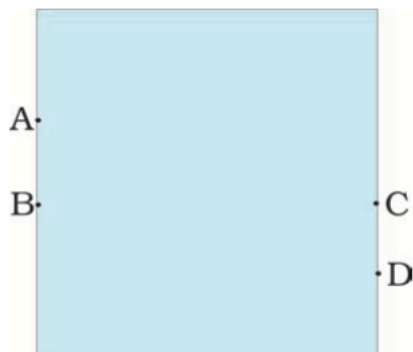


Fig. 11.4

A water tank has four taps fixed at points A, B, C, D as shown in Fig. 11.4. The water will flow out at the same pressure from taps at

- (a) B and C
- (b) A and B

- (c) C and D
- (d) A and C

8.



A



B



C

A brick is kept in three different ways on a table as shown in Fig. 11.5. The pressure exerted by the brick on the table will be

- (a) maximum in position A
- (b) maximum in position B

- (c) maximum in position C
- (d) equal in all cases.

### VERY SHORT ANSWER QUESTIONS

9. A ball of dough is rolled into a flat chapatti. Name the force exerted to change the shape of the dough.
10. Where do we apply a force while walking?

## MULTIPLE CHOICE QUESTIONS

1. Which of the following reproduces only inside a host cell?  
(a) Bacteria (c) Amoeba  
(b) Virus (d) Fungus.
2. A disease in human beings caused by virus is \_\_\_\_\_.  
(a) typhoid (c) dysentery  
(b) influenza (d) cholera
3. Pathogenic micro-organisms present in host cells are killed by medicines called  
(a) pain killer (c) antibiotics  
(b) antibodies (d) vaccines
4. The two micro-organisms which live in symbiotic association in lichens are  
(a) fungus and protozoa (c) bacteria and protozoa  
(b) alga and bacteria (d) alga and fungus
5. The gas released during the preparation of bread is  
(a) oxygen (c) nitrogen  
(b) carbon dioxide (d) sulphur dioxide
6. The disease caused by a protozoan and spread by an insect is \_\_\_\_\_.  
(a) dengue (c) polio  
(b) malaria (d) measles
7. Paheli dug two pits, A and B, in her garden. In pit A, she put a polythene bag packed with some agricultural waste. In pit B, she dumped the same kind of waste but without packing it in a polythene bag. She, then covered both the pits with soil. What did she observe after a month?  
(a) Waste in pit A degraded faster than that in pit B.  
(b) Waste in pit B degraded faster than that in pit A.

10. Match the names of scientists given in **Column A** with the discovery made by them given in **Column B**.

**Column A**

- (a) Louis Pasteur
- (b) Robert Koch
- (c) Edward Jenner
- (d) Alexander Fleming

**Column B**

- (i) Penicillin
- (ii) anthrax bacterium
- (iii) Fermentation
- (iv) small pox vaccine
- (v) Typhoid

11. Name one commercial use of yeast.

14. State whether the following statements are **True** or **False**. Correct the false statements.

- (i) There can be a wildlife sanctuary within a biosphere reserve.
- (ii) Plants of a particular area are collectively termed as fauna.
- (iii) Deforestation leads to an increase in the water holding capacity of the soil.
- (iv) Bison is an endemic fauna of Pachmarhi Biosphere Reserve.

17. Match the microorganisms given in the **Column A** to the group to which they belong in **Column B**.

**Column A**

- (a) *Lactobacillus*
- (b) *Aspergillus*
- (c) *Spirogyra*
- (d) *Paramecium*

**Column B**

- (i) Algae
- (ii) Protozoa
- (iii) Fungi
- (iv) Bacteria

18. Classify the following into friendly and harmful microorganisms.

Yeast, malarial parasite, *Lactobacillus*, bread mould, *Rhizobium*, *Bacillus anthracis*

Friendly

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Harmful

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16. Fill in the blanks in the following sentences.

- (a) A \_\_\_\_\_ process in which a substance reacts with \_\_\_\_\_ to give off heat is called combustion.
- (b) When the clothes of a person catch \_\_\_\_\_, the person is covered with a \_\_\_\_\_ to extinguish fire.
- (c) The \_\_\_\_\_ temperature at which a substance catches fire is called its \_\_\_\_\_ temperature.
- (d) The substances which have very \_\_\_\_\_ ignition temperature and can easily catch fire with a flame are called \_\_\_\_\_ substances.
- (e) The substances which vapourise during \_\_\_\_\_, give flame.