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## Exemplar solutions for class 9 Science

By Entrancei

6. Which one of the following is not the unit of energy?

- (a) joule (b) newton metre  
(c) kilowatt (d) kilowatt hour

7. The work done on an object does not depend upon the

- (a) displacement  
(b) force applied  
(c) angle between force and displacement  
(d) initial velocity of the object

8. Water stored in a dam possesses

- (a) no energy  
(b) electrical energy  
(c) kinetic energy  
(d) potential energy

9. A body is falling from a height  $h$ . After it has fallen a height  $\frac{h}{2}$ , it will possess.

- (a) only potential energy  
(b) only kinetic energy  
(c) half potential and half kinetic energy  
(d) more kinetic and less potential energy

### Short Answer Questions

10. A rocket is moving up with a velocity  $v$ . If the velocity of this rocket is suddenly tripled, what will be the ratio of two kinetic energies?

11. Avinash can run with a speed of  $8 \text{ m s}^{-1}$  against the frictional force of  $10 \text{ N}$ , and Kapil can move with a speed of  $3 \text{ m s}^{-1}$  against the frictional force of  $25 \text{ N}$ . Who is more powerful and why?

12. A boy is moving on a straight road against a frictional force of  $5 \text{ N}$ . After travelling a distance of  $1.5 \text{ km}$  he forgot the correct path at a round about (Fig. 11.1) of radius  $100 \text{ m}$ . However, he moves on the circular path for one and half cycle and then he moves forward upto  $2.0 \text{ km}$ . Calculate the work done by him.

Exercises	Collaborate	Activities
Exercises 4.1 to 4.10	Collaborate with your friends and discuss the questions. Discuss among yourselves.	Activities 4.1 to 4.10

1. What are the functions of the stomach?

2. How does the stomach protect itself from the acid of the gastric juice?

3. How does the stomach protect itself from the acid of the gastric juice?

4. How does the stomach protect itself from the acid of the gastric juice?

5. How does the stomach protect itself from the acid of the gastric juice?

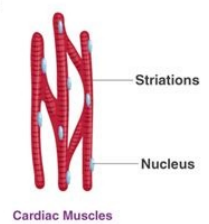
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10. How does the stomach protect itself from the acid of the gastric juice?



Class IX-Science Structure of the Atom EMBIBE

Element	Atomic number	Electronic configuration		
		K-shell	L-shell	M-shell
Carbon	6	2	4	
Sodium	11	2	8	1

10. If K and L shell of an atom is full then what would be the total number of electrons in the atom?  
**Solution:**  
 We know that,  
 No. of electrons in K-shell = 2  
 No. of electrons in L-shell = 8  
 The total no. of electrons in the atom will be = 2 + 8 = 10

11. How will you find the valency of chlorine, sulphur and magnesium?  
**Solution:**  
 We know that atomic number of Chlorine = 17  
 Its electronic configuration will be = 2, 8, 7  
 Valency of Cl = 8 - 7 = 1  
 We know that Atomic number of sulphur = 16  
 Its electronic configuration will be = 2, 8, 6  
 Valency of S = 8 - 6 = 2  
 We know that Atomic number of magnesium = 12  
 Its electronic configuration = 2, 8, 2  
 Valency of Mg = 2

12. If number of electrons in an atom is 8 and number of protons is also 8, then  
 (i) what is the atomic number of the atom? and  
 (ii) what is the charge on the atom?  
**Solution:**  
 (i) We know that, Atomic number = Number of Protons = 8  
 (ii) Given that,  
 Number of Protons (8) = Number of electrons (8)  
 So, the charge on the atom will be zero.

Practice more on Structure of the Atom Page - 3 www.embibe.com

### Exercise

#### Multiple Choice Questions

1. Which of the following statement is not correct for an object moving along a straight path in an accelerated motion?

- (a) Its speed keeps changing
- (b) Its velocity always changes
- (c) It always goes away from the earth
- (d) A force is always acting on it

Ans. (c) It always goes away from the earth

**Explanation:** To move away from the earth, an object needs the acceleration which should be more than the acceleration due to gravity of the earth. Only moving on a straight path is not enough for an object to escape the gravitation of the earth.

2. According to the newton's third law of motion, action and reaction

- (a) always act on the same body
- (b) always act on different bodies in opposite directions
- (c) have the same magnitude and directions
- (d) act on either body at normal to each other

Ans. (b) always act on different bodies in opposite directions

**Explanation:** Action and reaction act on different bodies but in opposite directions. They have the same magnitude.

3. A goalkeeper in a game of football pulls his hands backward after holding the ball shot at the goal. This enables the goalkeeper to

- (a) exert a larger force on the ball

Question 56. Is momentum a scalar or a vector quantity (CBSE 2015)

Answer: Momentum is a vector quantity.

#### Short Answer Questions

Question 1. When are the forces acting on a body said to be balanced Give an example. What type of change can the balanced forces bring about in an object (CBSE 2010, 2015)

Answer: Two forces of equal magnitude but acting in opposite directions on a body are said to be balanced forces. When we push a wall but the wall does not move at all, then balanced forces are acting on the wall. When balanced forces are -acting on an object, there is no change in the state of the object.

Question 2. What are the changes that a force can bring about on a body? Give examples. (CBSE 2010, 2011)

Or

Explain any three effects that can be produced by force with examples. (CBSE 2012, 2013, 2014)

Answer: Force can change

- 1. the shape of the body,
- 2. direction of motion .of the body,
- 3. the speed of the body and
- 4. size of the body

Examples :

- 1. The shape of a ball lying on a floor can be changed by pressing it.
- 2. The direction of motion of moving ball can be changed by hitting it with a bat.
- 3. A ball at rest can be set in motion if force is applied on it.
- 4. The length of a spring tied at one end can be increased by pulling it.

Question 3. Two balls A and B of masses  $m$  and  $2m$  are in motion with velocities ' $2V$ ' and ' $V$ ' respectively.

Compare

- (i) their inertia,
- (ii) their momentum and





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