## Gujarat Board Class 9 Science Important Questions



- 1. What is the significance of a balanced chemical equation?
- 2. Give the principles for the classification of organisms?
- 3. Compare fertilizers and manures.
- 4. List any three differences between the classes Aves and the Mammalia.
- 5. Define potential energy and give a few examples of objects possessing potential energy.
- 6. What is gravitational potential energy? On what does the change in potential energy of an object between two given points depend?
- 7. Balance the following chemical equations:
  - (a) S + H2SO4 $\rightarrow$  SO2+ H2O
  - (b) NH4Cl + Ca(OH)2 $\rightarrow$  CaCl2+ H2O + NH3
  - (c) H2S + H2SO4→ H2O + S
- 8. Why is irrigation important for crops? Describe in brief any four different kinds of irrigation systems adopted to supply water to agricultural lands.
- 9. Explain in brief the formation of ionic bonds with the help of an example.
- 10. Write the properties of ionic compounds.
- 11. What is SONAR? For what it is used? Explain its working in brief.
- 12. Define inertia. There are three solid balls, made up of aluminium, steel and wood of the same shape and volume. Which of them would have highest inertia? Why?
- 13. Apply the principle of law of conservation of linear momentum to obtain the expression for there coil velocity of a gun.
- 14. A girl of mass 50 kg jumps with a horizontal velocity of 5 ms-1onto a stationary cart with frictionless wheels. The mass of the cart is 4 kg. What is her velocity when the cart starts moving? Assume that there is no external unbalanced force working in the horizontal direction.
- 15. Describe the production of X-rays, its properties and uses
- 16. Describe the properties of ionic compounds.
- 17. Describe the properties of covalent compounds.
- 18. Write the names of the compounds represented by the following formulae:
  - (a) NaBr
  - (b) Al2O3
  - (c) CaCO3
- 19. Write a short note on Kingdom Fungi.
- 20. Differentiate between loudness and intensity of sound waves.