

**SAINIK SCHOOL GOPALGANJ**

**SUB: PHYSICS**

**CLASS - XI**

**ASSIGNMENT**

**Chapter: 1: Physical World**

**1. Physics is a/an**

- a) Engineering Science
- b) Mathematical Science
- c) Applied Science
- d) Natural Science

**2. The strongest force in nature is**

- a) Gravitational force
- b) Strong Nuclear Force
- c) Electromagnetic Force
- d) Weak Nuclear Force

**3. The range of Weak Nuclear Force is**

- a)  $10^{-15}$  m
- b)  $10^{-10}$  m
- c)  $10^{-16}$  m
- d)  $10^{-12}$  m

**4. Which force operates among the heavier elementary particles?**

- a) Electromagnetic force
- b) Strong Nuclear Force
- c) Weak Nuclear Force
- d) Gravitational Force

**5. The range of Strong Nuclear Force is**

- a)  $10^{-16}$  m
- b)  $10^{-12}$  m
- c)  $10^{-10}$  m
- d)  $10^{-15}$  m

**6. Electromagnetic Force is stronger than Gravitational force by a factor of**

- a)  $10^{36}$
- b)  $10^{10}$
- c)  $10^3$
- d) 100

**7. The word Science originates from the Latin word Scientia meaning**

- a) to observe
- b) to know
- c) to experience
- d) to see

**8. Proper framework for explaining microscopic phenomena is**

- a) Quantum Physics
- b) Theory of relativity
- c) Maxwell theory
- d) Classical Physics

**9. What is the central to the growth of Physics?**

- a) Qualitative description
- b) Conjectural description
- c) Speculative description
- d) Quantitative description

**10. Technology strives**

- a) to use science for application.
- b) to fulfill a human need such as faster cooking or serving etc
- c) to perfect science.
- d) to invent better rat traps.

11. Write two properties of Strong Nuclear Force.

12. What is the source of Gravitational force?

13. Write any four branches of Physics.

14. Arrange the fundamental forces in increasing order of their magnitude.

15. Friction is which type of fundamental force?

16. What is the scope of Physics? Discuss in brief.

17. Define unification and reduction. Also write their importance in development of Physics.

18. How the development in physics is helpful for the society? Explain.

19. Is physics more of a philosophy or more of a mathematical science?

20. How is science different from technology? Explain.

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