

# PHYSICAL WORLD

**General Instructions:** Answer all the questions. If you are unable to answer any question, go through the page number that is given against that particular question in the text book. You can find the answer.

## Test Paper-II

**Max marks: 20**

**Time: 60Mts**

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|----|--|-----|---|
| 1  | Which year was declared as the International year of physics?  | P8  | 1 |
| 2  | Name the force which plays key role in the formation and evolution of stars and galaxies.  | P8  | 1 |
| 3  | Give the differences between gravitational force and Electromagnetic Force   | P2  | 2 |
| 4  | When we hold a book in our hand gravitational force on the book is balanced by the 'Normal Force' provided by our hand. What is the force that is responsible for this Normal Force?                       | P9  | 1 |
| 5  | What is the force existing between the protons, neutrons, and a proton and a neutron? Give the properties of the force. Also state the elementary particles from which the protons and neutrons are built. | P9  | 3 |
| 6  | Between which particles & process the weak nuclear force appears?  | P9  | 1 |
| 7  | Give the Achievements of the following scientists in unification of different forces   | P10 | 3 |
|    | a. Isaac Newton  |     |   |
|    | b. Hans Christian Oersted and Michael Faraday  |     |   |
|    | c. James Clerk Maxwell   |     |   |
| 8  | Name the law obeyed by a chemical reaction .What is the difference between an exothermic reaction and an endothermic reaction. How a chemical reaction is different from a nuclear reaction?               | P11 | 3 |
| 9  | What are the basic conservation laws of nature in all domains?   | P12 | 1 |
| 10 | What is a conservation law? Can we prove it? Give some examples of conservation laws.  | P12 | 2 |
| 11 | Give the difference between the law of Gravitation and acceleration due to gravity.  | P12 | 1 |
| 12 | What is the value of acceleration due to gravity on the surface of the Moon?   | P12 | 1 |