

Board - CBSE

Class - 11

Topic – Physical World

## Very Short Answer Type 1 Mark Questions

1.	What is science?
	<b>Ans:</b>
2.	What is the origin of the word science?
	<b>Ans:</b>
3.	What is the basic aim of science?
	<b>Ans:</b>
4.	What is the difference between physical and biological sciences?
	<b>Ans:</b>
5.	What is scientific attitude?
	<b>Ans:</b>
6.	What is a theory?
	<b>Ans:</b>
7.	What is physics?
	<b>Ans:</b>
8.	What is the origin of the word physics?
	<b>Ans:</b>
9.	What are the two basic quests in physics?
	<b>Ans:</b>
10	Name the domain of physics that deals with phenomena intermediate between macroscopic and microscopic domains.
	<b>Ans:</b>
11.	Physics has a very limited scope and is only the pastime of a few blessed ones. Is it true?
	<b>Ans:</b>

12	State one law that holds good in all-natural processes .
	<b>Ans:</b>
13	Some exciting and educative physical phenomena and experience lead to the development of a theory. Give two such examples. .
	<b>Ans:</b>
14	Name two Indian born physicists who have been awarded Noble Prize in physics. .
	<b>Ans:</b>
15	Name the scientist who replaced circular orbits by elliptical orbits in the heliocentric theory of the sun. .
	<b>Ans:</b>
16	Name the scientist who discovered X-rays. .
	<b>Ans:</b>
17	Who discovered electrons? .
	<b>Ans:</b>
18	Name the scientist who first proposed the wave theory of light. .
	<b>Ans:</b>
19	Name the famous scientist who discovered the law of gravitation. .
	<b>Ans:</b>
20	Name the physicist who first proposed the nuclear model of the atom. .
	<b>Ans:</b>

### Short Answer Type 2 Mark Questions

1.	What is a scientific method? Mention the various steps involved in a scientific method.
	<b>Ans:</b>

2.	Mathematics is an important tool in the development of physics. Comment on this statement.
	<b>Ans:</b>
3.	Mention four important discoveries of physics which have revolutionised modern chemistry.
	<b>Ans:</b>
4.	Name some advancements in physics which have played an important role in the development of medical sciences.
	<b>Ans:</b>
5.	Name two advancements made in technology on the basis of physics.
	<b>Ans:</b>
6.	Theory and experiments go hand in hand in physics and help each other's progress. Give two suitable examples in support of this view.
	<b>Ans:</b>
7.	The scope of physics is truly vast. Comment.
	<b>Ans:</b>
8.	Physics is a science of excitement. How?
	<b>Ans:</b>
9.	Give reasons for the tremendous progress in physics in the last few centuries.
	<b>Ans:</b>
10	Discuss the relation of physics with other sciences.
	<b>Ans:</b>
11.	Discuss the relation of physics with mathematics and chemistry.
	<b>Ans:</b>
12	What is physics? Discuss the relation of physics with technology.
	<b>Ans:</b>

### Short Answer Type 3 Mark Questions

1.	Discuss the scope and excitement of physics.
	<b>Ans:</b>

2.	Explain the electromagnetic nature of the contact forces between two bodies.
	<b>Ans:</b>
3.	Briefly discuss the nature of the force of friction.
	<b>Ans:</b>
4.	Explain how does the elastic force in a spring arise.
	<b>Ans:</b>
5.	Briefly explain the origin of Van der Waals' force between two neutral molecules.
	<b>Ans:</b>
6.	Taking a suitable example from daily life, show that electromagnetic force is enormously stronger than the gravitational force.
	<b>Ans:</b>
7.	Although gravitational force is the weakest of the four fundamental forces, yet it governs the large-scale motion in the universe. Explain how.
	<b>Ans:</b>
8.	What is a weak nuclear force? Give its important properties. Give an example of a weak nuclear force.
	<b>Ans:</b>
9.	Name the four fundamental forces in nature. Out of the four which one is (a) strongest, and (b) weakest?
	<b>Ans:</b>
10	Write the names of the four fundamental forces in nature. Give any two main characteristics of each type.
	<b>Ans:</b>
11.	How do we classify elementary particles as baryons, mesons and leptons? Amongst which of these particles is the strong nuclear force dominant and amongst which is the weak nuclear force dominant?
	<b>Ans:</b>
12	State the law of conservation of energy. Give a suitable example for it.
	<b>Ans:</b>

