

APOLLO

Nature of Science and Physics

FBISE Physics Class 9 (SSC-I)

Domain G: Nature of Science

21 questions | questions

Original FBISE question crops. National Curriculum 2022-23 topic.

17.	Which factor determines validity of a theory?	Length of time	Experimental evidence	Popularity	Number of equations
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30.	The branch of physics which deals with study of light is:	Mechanics	Optics	Thermodynamics	Magnetism
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38.	A relationship between physical quantities remains unchanged under the same conditions after many experiments. Scientists accept it as a:	Theory	Assumption	Hypothesis	Law
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11.	Studying how air conditioner cools a house, is a part of:	Thermodynamics	Electromagnetism	Nuclear physics	Optics
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12.	Which branch of physics deals with transmission and control of sound?	Astronomy	Cosmetology	Optics	Acoustics
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Q.4	Explain the limitations of Newton's laws of motion.	05	OR	Briefly discuss any ten fields of physics.	05
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Briefly describe any ten fields of physics.	05
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The working of an air-conditioner is primarily related with:	Electromagnetism	Thermodynamics	Kinematics	Dynamics
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What is the difference between classical mechanics and quantum mechanics.	03
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(viii) Briefly describe any three sub-fields of physics.	03
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(xi) What is meant by theory? How is theory developed? تھیوری سے کیا مراد ہے؟ تھیوری کیسے بنی ہے؟	1+2
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c. Accelerating Briefly describe the following branches of physics: a. Optics b. Cosmology c. Biophysics	1x3
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5. The branch of physics that studies atomic nuclei and their reactions is known as:	Nuclear Physics	Quantum Mechanics	Thermal Physics	Biophysics
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A hypothesis is best described as:	A proven law	A testable prediction	A mathematical rule	A universal fact
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2 Attempt the following parts. (10 x 3 =30)
(Use of graph paper is not necessary. Candidates can make

Briefly describe the following branches of physics: a. Astronomy b. Particle physics c. Geophysics	1x3	OR
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3. The study of electricity and magnetism together is known as:	Electromagnetism	Nuclear Physics	Classical Mechanics	Particle Physics
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10. In scientific research, a theory is:	A guess with no evidence	A personal opinion	A rule that never changes	Explanation based on experiments	○
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11. The Branch of Physics that is most important when studying how glasses help people see:	Thermodynamics	Electromagnetism	Mechanics	Optics
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12. Which term describes a thoroughly tested idea in physics?	Idea	Hypothesis	Theory	Law
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(iii)	Differentiate between strong nuclear force and electromagnetic force.	03	OR	Define astrophysics, biophysics and optics	03
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	Briefly explain the following branches of physics: فزکس کی درجہ شاخوں کی مختصر وضاحت کریں:	
OR	a. Optics (اپٹکس) b. Particle Physics (پارٹیکل فزکس)	03