

APOLLO

FBISE Physics Class 9

Topical workbook - Volume 4 of 4

18 questions arranged by official framework topic.

National Curriculum 2022-23; supported examinations from 2027.

APOLLO

Nature of Science and Physics

Domain G: Nature of Science

سوال نمبر	موضوع	تہذیب	زبان	نوع
11.	Studying how air conditioner cools a house, is a part of:	Thermodynamics	Electromagnetism	Nuclear physics
		Optics		

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
	نیوٹن کے قوانین حرکت کی لمیٹیشنز کی وضاحت کریں۔			فزکس کی کوئی دس مختلف فیلڈز کی مختصر وضاحت کریں۔	

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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ثابت کریں کہ پرنسپل آف برہم پرتوں سے ہر اس پتہ پر ہے۔	
(viii)	Briefly describe any three sub-fields of physics.
	فزکس کی تین مختلف شاخوں کی مختصر وضاحت کریں۔
03	

درجہ حاصلوں میں سے یہ کامیابیوں کے ساتھ رہا ہے۔	
(xi)	What is meant by theory? How is theory developed?
	’تھیوری‘ سے کیا مراد ہے؟ تھیوری کیسے بنتی ہے؟
1+2	

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	1x3	OR
c. Geophysics		

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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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OR	Briefly explain the following branches of physics: فزکس کی درج شاخوں کی مختصر وضاحت کریں:	03
	a. Optics (اپٹکس) b. Particle Physics (پارٹیکل فزکس)	
