9th Physics Guess 2023 PTB

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For objective preparation all exercises MCQs, all book tables or blocks are important.

Short Questions

Chapter#1

Define physics with its three branches.
Define plasma physics
Define geophysics.
Define base quantities.
Define derived quantities.
Define base units.
Define derived units.
What are prefixes?
Define scientific notation.
What is meant by significant figures?
What is vernier calipers?
Write least count of vernier calipers and screw guage
What is screw guage?
What is SI?
What is the role SI in the development of science?
Define vernier constant.

Chapter#2

Define translatory motion .
Define random motion.
Define vibratory motion.
Differentiate between speed and velocity
Differentiate between Scalar and Vector.
Define acceleration.
Differentiate between variable and uniform speed.
Differentiate between positive and negative acceleration.
Define gravitational acceleration.
Write the equations of motion.

Chapter#3

Define Inertia
Define momentum.
When a gun is fired, it recoiled why?
Define Newton's first law of motion.
Differentiate between mass and weight.
Define Newton's 3rd law of motion.
Why rolling friction is less than sliding friction?
What is Braking and skidding?
Define co-efficient of friction.
Define Centripetal force
Define centrifugal force.
Define force and its unit.

Chapter#4

What is resultant of force?
What is rigid body?
Define axis of rotation.
When does a body is said to be in equilibrium?
Differentiate between like and unlike parallel forces?
Define resolution of forces.
Define rigid body.
Define line of action of forces.
Define equilibrium.
What is neutral equilibrium?
State second condition for equilibrium.
What is unstable equilibrium?

Chapter#5

Define law of gravitation.
What is gravitational field?
Define field force
Define gravitational field strength
Differentiate between 'G' and 'g'.
What are natural satellite and artificial satellites?

Chapter#6

Define Joule.
What is light energy?
Define potential energy.
Define work. What is its SI unit?
Define K.E. and derive its relation.
What is nuclear Energy?
Define efficiency.
What is meant by power?
On which factors work depend.
Define watt.
What is magma?
What is Einstein mass energy equation.
Define conservation of energy

Chapter#7

Define Hooke's law
State Young's Modulus.
Define density.
Define elasticity.
Define pressure.
Differentiate between stress and strain.
State the Pascal's law.
State Archimedes principle.
What is barometer?
What is meant by atmospheric pressure?

Chapter#8

How does heating affect the motion of molecules of gas?
Define Specific heat.
Differentiate between heat and temperature.
Define latent heat of fusion.
Why gaps are left in railway tracks?
How evaporation differs from vaporization?
Define latent heat of vaporization.

Chapter#9

What is transfer of heat?
Write names of birds who are expert thermal climbers.
What is convection current ?
Write use of Leslie cube
Define radiation.
Why are the metals good conductors of heat?
Write two use good conductor.
What is gliding?
Define thermal conductivity.
Define convection
What is land breeze and sea breeze.
Write methods of heat transfer.
Define conduction.

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Long Questions

Chapter#2

Derive all equations of motion.

Chapter#3

Explain the advantages friction.

State the disadvantages friction.

State second law of motion and prove f = ma.

Chapter#4

Define torque with its factors.

Explain conditions for equilibrium.

Chapter#5

Determine the mass of earth .

Chapter#6

Write the uses of solar energy.

State electrical energy and sound energy.

Explain two major renewable sources of energy.

Explain solar cells

Chapter#7

State Pascal's law and hydraulic press.

Chapter#8

Explain linear thermal expansion in solids.

Chapter#9

Explain the specific heat of a solid?

9th Physics Expected Numerical Guess 2023 PTB

Chapter # 1: N # 1.3,1.7,1.10 **Chapter # 2:** E#2.2, 2.5,2.10 N# 2.1,2.2,2.6,2.8,2.10 **Chapter # 3:** E#3.1, 3.6,3.7,3.8 N# 3.1 to 3.5, 3.8, 3.10 **Chapter # 4:** E#4.3, 4.5 N # 4.2 to 4.7 **Chapter # 5:** E#5.2, N # 5.2,5.8,5.9,5.10 **Chapter # 6:** E#6.3, N # 6.1, 6.2, 6.6, 6.9 **Chapter #7:** E#7.1,7.4, N # 7.1, 7.2, 7.6, 7.8, 7.9 **Chapter #8:** E#8.1 to 8.4, 8.6 N # 8.7, 8.9, 8.10

9th Physics Expected Paper Scheme PTB

Objective

Chapter	MCQs	Chapter	MCQs	Chapter	MCQs
1	2	4	1	7	1
2	1	5	2	8	1
3	1	6	1	9	2

Short Questions

Chapter	Short Questions	Chapter	Short Questions	Chapter	Short Questions
1	3	4	2	7	3
2	2	5	3	8	2
3	3	6	3	9	3

Long Questions

Chapter	Long Questions	Chapter	Long Questions	Chapter	Long Questions
2	Q#5 (a)	4 or 5	Q#6 (a)	7	Q#7 (a)
3	Q#5 (b)	6	Q#6 (b)	8 or 9	Q#7 (b)