



PHYSICS –9TH

2nd Half BOOK

Name: _____

Total Marks:60

Q#1) Choose the correct options.

- One milliliter is equal to:
a) 1mm^3 b) 1cm^3 c) 1dm^3 d) 1m^3
 - The velocity of geostationary satellite with respect to earth is:
a) Zero b) 5kmh^{-1} c) 10kmh^{-1} d) 15kmh^{-1}
 - The moon is nearly _____ away from the Earth.
a) 38000 km b) 3800 km c) 37000km d) 370,000 km
 - The density of a substance can be found with the help of:
a) Pascal's law b) Hook's law c) Archimedes principle
d) Principle of floatation
 - According to Hook's law _____ = constant:
a) Stress x strain b) $\frac{\text{Stress}}{\text{Strain}}$ c) $\frac{\text{Strain}}{\text{Stress}}$ d) stress = strain
 - Boiling point of Gold is $^{\circ}\text{C}$?
a) 2660 b) 2690 c) 2680 d) 2690
 - Which of the following Has Large value of average kinetic energy?
a) steel b) copper c) Water d) mercury
 - Rooms are heated using gas heaters by
a) Conduction b) convection and radiation
c) Radiation only d) convection only
 - Metals are good conductor of heat due to the
a) Free electrons b) big size of their molecules
c) small size of their molecules d) rapid vibrations of their atoms
 - The value of g at a height of one earth's radius above the surface of the earth is:
a) 2 g b) $\frac{1}{2}\text{g}$ c) $\frac{1}{3}\text{g}$ d) $\frac{1}{4}\text{g}$
 - Amount of matter in a substance is measured in SI unit by:
a) Gram b) Kilogram c) Newton d) mole
 - The study of internal structure of the earth is:
a) Atomic physics b) Geo physics c) Sound d) heat
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(SECTION-2)

Q#2) Attempt any five questions. 5*2=10

- Define the term mechanics and Electromagnetism.
- On what factor the orbit speed of satellite depend?
- What is Archimedes principal?
- Convert 50°C into $^{\circ}\text{F}$.
- How can we fill the wall cavities?
- Define perpendicular component.
- Express in scientific notation. 0.00580km , 210.0g
- Define glider.

Q#3) Attempt any five questions. 5*2=10

- Your hair growth at the rate of 1mm per day. Find there growth rate in nm s^{-1} .
- What is the direction of gravitational field?



- 3) Describe the navigation system.
- 4) What is barometer?
- 5) Define Young's Modulus.
- 6) Define and explain latent heat of fusion.
- 7) What is meant by convection?
- 8) Why transfer of heat in fluids takes place by convection?

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Q#4) Attempt any five questions.

5*2=10

- 1) On what factors does precision in measurement depend?
- 2) Differentiate b/w base and derived quantities.
- 3) Define heat and internal energy.
- 4) Why mercury is preferred as a thermometric substance?
- 5) How can we determine the mass of Earth?
- 6) Desert spoon get hot during the day and soon get cold after sunset. Why?
- 7) The mass 200 cm³ at stone is 500 g. Find its density?
- 8) Define Hook's law.

پنجاب کے تمام بورڈز (لاہور، ملتان، گوجرانوالہ، سرگودھا، ڈیرہ
غازی خان، فیصل آباد، ساہیوال) کے نوٹس، گیس پیپرز، چیپٹر وائز
ٹیسٹ، ہاف بک ٹیسٹ، فُل بک ٹیسٹ کے لیے ہماری ویب سائٹ

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(SECTION-3)

Attempt any two questions.

2*9=18

- Q#4)** a) State Pascal's law and explain the working of hydraulic press.
b) Define and explain volumetric thermal expansion.

- Q#5)** a) Describe four properties of liquid state of matter.
b) Find the temperature of water after passing 5g of steam at 100 °C through 500g of water at 10 °C.

- Q#6)** a) Explain Archimedes Principle.
b) Find the volume of a brass cube at 100 °C whose side is 10cm at 0 °C.
(Co-efficient of linear expansion of brass = $1.9 \times 10^{-5} \text{ K}^{-1}$)

BEST OF LUCK...