**Gulistan Academy**

Physics (9th) Max.Marks = 22

Chapter No.7 (Properties of Matter) Pass Marks = 15

Time Allowed = 30 min

**Question No.1: Give short answers. (7x2 = 14)**

1. Is there any fourth form of matter? Explain.
2. Define pressure and its unit.
3. Why water is not suitable to use in a barometer?
4. Why does atmospheric pressure vary with height?
5. State Pascal’s Law.
6. The mass of 200 cm3 of stone is 500 g. Find its density.
7. What is Hook’s Law. What is meant by elastic limit.

**Question No.2: (4+4 = 8)**

1. What is Archimedes Principle? Derive an expression for up thrust force.
2. The diameter of the piston of a hydraulic press is 30 cm. How much force is required to lift a car weighing 20,000 N on its piston if the diameter of the piston of the pump is 3 cm?

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