**Gulistan Academy**

Physics (9th) Max.Marks = 30

Chapter No.1 (Physical Quantities and Measurement) Pass Marks = 20

Time = 45 minutes

**Question No.1: Multiple choice questions. (1**x**6 = 6)**

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| 1. The number of base units in SI are | | | |
| 1. 2 | 1. 3 | 1. 5 | 1. None of these |
| 1. An interval of 300 ns is equivalent to | | | |
| 1. 3 x 10-9 s | 1. 0.3 us | 1. 0.003 ms | 1. All of these |
| 1. Which of the following is the largest quantity | | | |
| 1. 68000 ns | 1. 68 us | 1. 0.068 ms | 1. 0.00068 s |
| 1. A student claimed the diameter of a wire 1.0321 mm using screw gauge. Upto what extent do you agree with it | | | |
| 1. 1.0321 mm | 1. 1.032 mm | 1. 1.03 mm | 1. 1.0 mm |
| 1. The mass of an object is measured 96060 kg with an instrument of least count 10 kg. The number of significant figures in the final reading will be | | | |
| 1. Four | 1. Three | 1. Two | 1. One |
| 1. Which one of the following is not a derived quantity | | | |
| 1. Mass | 1. Amount of Substance | 1. Temperature | 1. All of these |

**Question No.2: Give short answers. (2**x**8 = 16)**

1. Estimate your age in minutes.
2. What is Vernier Constant?
3. Shortly describe the method of taking reading from a Screw Gauge.
4. Shortly explain the different types of stop watch.
5. Write these numbers using the prefixes:
6. 20,000 g **(b)** 4,800,000 W **(c)** 0.00004 m **(d)** 0.00580 s
7. What is the relation between prefixes “micro” and “nano”?
8. Shortly describe the method of taking reading from a measuring cylinder.
9. What is the number of significant figures in the following measurements?
10. 1.009 m **(b)** 0.00450 kg **(c)** 1.66 x 10-27 kg **(d)** 2017 s

**Question No.3: (4+4 = 8)**

1. What are Physical Quantities? Explain their different types.
2. Write the following in standard form:
3. 6400 **km** **(b)** 380 000 **km**

**(c)** 300 000 000 **ms-1** **(d)** Number of seconds in a day

**(e)** 3 84 000 000 **m** **(f)** 0.00045 **s**

***Best of luck***