**Gulistan Academy**

Physics (10th) Max.Marks = 40

Chapter No.18 (Atomic & Nuclear Physics) Pass Marks = 20

**Time = 1 Hour** Teacher Name: M.Maaz

**Question No.2: Attempt any five: (2x5 = 10)**

1. *What is the difference between Damped and Un-Damped oscillations?*
2. *Does increasing the frequency of a wave also increase its wavelength?*
3. *Define Reflection and Refraction.*
4. *Sound is a form of wave. List at least three reasons to support the idea.*
5. *A sound wave has a frequency of* ***2 kHz*** *and wavelength* ***35 cm****. How long will it take to travel* ***1.5 km****?*
6. *Differentiate between pitch and frequency of sound.*
7. *Write the properties of the*

**Question No.2: (5+3 = 8)**

1. *Describe some uses of Radioisotopes.*
2. ***Cobalt-60*** *is a radioactive element with half-life of* ***5.25 years****. What fraction of the original sample will be left after* ***26 years****?*

**Question No.3: (5+3 = 8)**

1. *What is Nuclear Fission Reaction? Explain with example. Also discuss the Fission Chain Reaction.*
2. *Ashes from a campfire deep in a cave show* ***carbon-14*** *activity of only* ***one-eighth*** *the activity of fresh wood. How long ago was that campfire made?*

***Best of luck***