**Gulistan Academy**

Physics (9th) Max.Marks = 25

Chapter No.9 (Transfer of Heat) Pass Marks = 15

Time = 30 minutes

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

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| 1. In solids, heat is transferred by | | | |
| 1. Conduction | 1. Convection | 1. Radiation | 1. Absorption |
| 1. By doubling the thickness of a wall, its thermal conductivity | | | |
| 1. Remains same | 1. Becomes 2 times | 1. Becomes halved | 1. Becomes 4 times |
| 1. Transfer of heat in gasses is mostly due to | | | |
| 1. Conduction | 1. Radiation | 1. Collisions of atoms | 1. None of these |
| 1. Artificial Ceiling is used to | | | |
| 1. Lower the height | 1. Clean the roof | 1. Cooling room | 1. Insulate the roof |
| 1. Heat reaches us from sun by | | | |
| 1. Conduction | 1. Convection | 1. Radiation | 1. All of these |
| 1. Gas heaters keep rooms warm by | | | |
| 1. Conduction | 1. Convection | 1. Radiation | 1. Both (b) and (c) |

**Question No.2: Give short answers. (2**x**6 = 12)**

1. Why, metals are known as good conductor?
2. Why Land Breeze blows from sand to sea? Explain your answer.
3. What are convection currents?
4. How can you compare different surfaces using Lasile Cube? Explain.
5. What do you mean by thermal conductivity of a material? Write its expression.
6. Write two uses of each ‘conductors’ and ‘insulators’.

**Question No.3: (4+3 = 7)**

1. What is Green House Effect. Discuss the consequences of Green House Effect in Global Warming.
2. How much heat will be wasted in one hour through a glass window of measure 2.5 m x 2.0 m? While the internal and external temperatures are respectively 25°C and 5°C. Thickness of glass is 0.8 cm. The value of ‘k’ for glass is 0.8 Wm-1K-1.

***Best of luck***