



**Resonance**<sup>®</sup>  
Educating for better tomorrow

**TARGET : NEET (UG) 2024**

**Course : SARANSH (Youtube Live CRASH COURSE)**

**PHYSICS**

**DPP**

**DAILY PRACTICE PROBLEMS**

**DPP NO. 2**

**PHYSICS: HEAT TRANSFER**

**DPP No. : 2**

- Which of the following is true statement ?  
 (1) A good absorber is bad conductor  
 (2) Each body emits and absorb radiation at each temperature  
 (3) In a black body energy of emitted radiation is equal for all wavelength  
 (4) Planck's law gives the relation between maximum wavelength of black body radiation and its temperature.
- Water is usually heated by  
 (1) Conduction                      (2) Convection                      (3) Radiation                      (4) All the above processes
- In natural convection a heated portion of a liquid moves because-  
 (1) Its molecular motion becomes aligned  
 (2) Of molecular collisions within it  
 (3) Its density is less than that of the surrounding fluid  
 (4) Of currents of the surrounding fluid
- It is hotter at the same distance over the top of a fire than it is on the side of it mainly because  
 (1) heat is radiated upwards  
 (2) Air conducts heat upwards  
 (3) convection takes more heat upwards  
 (4) Conduction, convection and radiation all contribute significantly in transferring heat upwards
- Ventilators are provided at the top of room  
 (1) to bring oxygen for breathing  
 (2) so that sunlight may enter the room  
 (3) to maintain convection currents to keep the air fresh in the room  
 (4) To provide an outlet for carbon dioxide
- Mode of transmission of heat in which heat is carried by moving particles is:  
 (1) wave motion                      (2) convection                      (3) conduction                      (4) radiation
- Radiation emitted by a surface is directly proportional to-  
 (1) Third power of its temperature                      (2) Fourth power of its temperature  
 (3) Twice power of its temperature                      (4) None of above
- If temperature of surface of sun becomes half then the energy emitted by it to earth per second will reduce to -  
 (1) 1/2                      (2) 1/4                      (3) 1/16                      (4) 1/64
- There is a black spot on a body. If the body is heated and carried in dark room then it glows more. This can be explained on the basis of-  
 (1) Newton's law of cooling                      (2) Vien's law  
 (3) Kirchoff's law                      (4) Stefan's
- If temperature of body increases by 10%, then increase in radiated energy of the body is :  
 (1) 10%                      (2) 40%                      (3) 46%                      (4) 1000%

