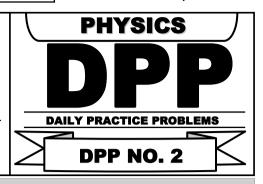


TARGET: NEET (UG) 2024

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



## PHYSICS: HEAT TRANSFER

**DPP No.: 2** 

- **1.** 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.
- 2. Water is usually heated by

(1) Conduction

(2) Convection

(3) Radiation

- (4) All the above processes
- 3. 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
- 4. 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 rediated upwards
  - (2) Air conducts heat upwards
  - (3) convection takes more heat upwards
  - (4) Conduction, convection and radiation all contribute significantly in transferring heat upwards
- **5.** 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
- **6.** Mode of transmission of heat in which heat is carried by moving particles is:
  - (1) wave motion
- (2) convection
- (3) conduction
- (4) radiation
- 7. 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
- 8. 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

- **9.** 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

**10.** If temperature of body increases by 10%, then increase in radiated energy of the body is:

(1) 10%

(2) 40%

(3) 46%

(4) 1000%



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