

**Heat QUESTIONS**

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1) The clouds float in the atmosphere because of their low:

- >temperature
- >velocity
- >pressure
- >density

**Answer:**

- >temperature
- 

2) Low temperatures (cryogenics) find application in:

- >space travel, surgery and magnetic levitation
- >surgery, magnetic levitation and telemetry
- >space travel, surgery and telemetry
- >space travel, magnetic levitation and telemetry

**Answer:**

- >space travel, surgery and magnetic levitation
- 

3) When water is heated from 0 degree C to 10 degree C its volume :

- >increases
- >decreases
- >does not change
- >first decreases and then increases

**Answer:**

- >first decreases and then increases
- 

4) The change of a solid into vapour directly is called:

- >vaporization
- >freezing
- >melting
- >sublimation

**Answer:**

- >sublimation
- 
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5) A hollow sphere of radius R, a hollow cube of side R and thin circular plate of radius R made up of the some material are all heated to 20 degree C above room temperature. When left to cool in the room, which of them will reach the room temperature first ?

- >Circular plate
- >cube
- >sphere
- >all of them will reach the room temperature at the same time

**Answer:**

- >sphere
- 

6) What is the principle by which a cooling system (Radiator) in a motor car works ?

- >Conduction only
- >convection
- >radiation only
- >both conduction and radiation

**Answer:**

- >convection
- 

7) Which of the following is the best conductor of the heat:

- >mercurty
- >silver
- >leather
- >benzene

**Answer:**

- >silver
- 

8) In the winter season if we touch two blocks one of iron and another of wood in the early morning then the block of iron appears to be more cold because:

- >the temperature of the iron block is less then that of the wooden block
- >iron is a bad conductor of heat in comparison of the wood
- >iron is a bad conductor of heat is comparison of the wood
- >the block of iron is heavier than the wooden block

**Answer:**

- >iron is a bad conductor of heat in comparison of the wood
- 

9) The water from a hand pump is warm in winter because:

- >our body is cold in winter and water appears to be warm
- >the temperature inside the earth is higher than the atmospheric temperature
- >inside water comes out and absorbs heat from the environment
- >the pumping process causes friction which warms up the water

**Answer:**

- >the temperature inside the earth is higher than the atmospheric temperature
- 
- 

10) Which colour of heat radiation represents the highest temperature ?

- >blood red
- >dark chery
- >salmon
- >white

**Answer:**

- >white
- 
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11) which one of the following statements is correct ? Transfer of heat energy from a heater coil to the cooking vessel takes place through the process of:

- >convection only
- >conduction and convection only
- >radiation and convection only
- >convection conduction and radiation

**Answer:**

- >radiation and convection only
- 
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12) How can boiling point of a liquid be reduced ?

- >by adding a solid of lower melting point
- >by dissolving a soluble solid in it
- >by increasing the pressure on the liquid
- >by decreasing the pressure on the liquid

**Answer:**

- >by decreasing the pressure on the liquid
- 
- 

13) The temperature of a body is an indicator of :

- >the total energy of the molecules of the body
- >the average energy of the molecules of the body
- >the total velocity of the molecules of the body
- >the average kinetic energy of the molecules of the body

**Answer:**

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14) The temperature of a body is an indicator of :

- >the total energy of the molecules of the body
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- >the total velocity of the molecules of the body
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**Answer:**

- >the average kinetic energy of the molecules of the body
- 
- 

15) At normal temperature, due to a puncture the compressed air inside the tube of a car wheel suddenly starts coming out. Then the air inside the tube :

- >Starts becoming hotter
- >starts becoming cooler
- >remains at the same temperature
- >may become hotter or cooler depending on the amount of water vapour present in the air

**Answer:**

- >remains at the same temperature
- 
- 

16) A real gas can be liquefied by the application of pressure when its temperature is:

- >Above the room temperature
- >above the inversion temperature
- >At the boyle temperature
- >at the critical temperature

**Answer:**

- >at the critical temperature
- 
- 

17) Nights are cooler in the deserts than in the plains because:

- >sand radiates heat more quickly than the earth
- >the sky remains clear most of the time
- >sand absorbs heat more quickly than the earth
- >of none of the above reasons

**Answer:**

- >sand radiates heat more quickly than the earth
- 
-

18) Clear night are colder than cloudy nights because of :

- >conduction
- >condensation
- >radiation
- >insolation

**Answer:**

- >radiation
- 
- 

19) A gas thermometer is more sensitive than a liquid thermometer because a gas:

- >is lighter than liquid
- >expands more than a liquid
- >is easy to obtain
- >does not change state easily

**Answer:**

- >expands more than a liquid
- 
- 

20) The speed of light with the rise in the temperature of the medium:

- >increases
- >decreases
- >Remains unaltered
- >Drops suddenly

**Answer:**

- >Remains unaltered
- 
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