Techofworld.In Techofworld.In 11. A cup of hot tea on a metal table in a room loses heat by Conduction Convection Radiation All the above Answer (d). 12. Which among the following is true of a sphere, a cube and circular plate of same material and same mass heated to same temperature? Sphere cools the slowest Circular plate cools the fastest Cube cools the fastest Circular plate cools the slowest Answer (b). 13. At what temperature are the Celsius and Fahrenheit equal? $+40^{\circ}$ - 40° - O° $+ 100^{\circ}$ Answer (b).

14. What would happen to a hole in a metal sheet when the sheet is heated?It decreases in sizeIt increases in size

Techofworld.In Techofworld.In No change is seen First increases and then decreases Answer (b). 15. Which of the following is equivalent of a calorie? the specific heat of water. the energy needed to increase the temperature of 1 gram of water 1 degree Celsius. equivalent to a little over 4 joules of mechanical work. all of the above. Answer (d). 16. In which of the following processes of heat transfer no medium is required? Conduction Convection Radiation All Answer (c). 17. In which of the following processes is heat transferred directly from molecule to molecule? conduction convection radiation all of the above

Answer (a).

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18. When a solid, liquid, or a gas changes from one physical state to another, the change is called

melting

enthalpy

a phase change

sublimation

Answer (c).

19. The surface which radiates more heat at a given temperature is

Black and Polished

White and polished

White and Rough

Black and Rough

Answer (d).

20. Compared to warm air, cool air can hold

more water vapour

less water vapour

the same amount of water vapour

temperature is unimportant here

Answer (b).