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Class: VII
Subject: Physics
Topic: Heat
No. of Qs: 20

Q 1. What is the common unit of measurement of temperature?

Q 2. Often before sunrise on a clear, calm, cold morning, ice (frost) can be seen on the top of parked cars, even when the air temperature is above freezing. Why does this happen?

Q 3. In what ways the heat can be transferred from one place to another?

Q 4. Write three precautions in using a laboratory thermometer.

Q 5. An iron ball at 40°C is transferred to a mug containing water at a temperature of 40°C. In which direction will the heat flow?

Q 6. Why should the room heaters be placed at the floor of the room?

Q 7. A hot utensil kept away from the flame cools down. How?

Q 8. If air is a bad conductor of heat, why do we not feel warm without clothes?

Q 9. What is the other name of poor conductors of heat?

Q 10. Which of the following properties is not a characteristic of mercury?

Q 11. How are ocean currents formed?

Q 12. How does a mud house remain cool in summers and warm in winters?

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Q 13. One litre of water at 30°C is mixed with water at 50°C, then the mixture will have temperature

A. 80°C

B. 20°C

C. More than 80°C

D. In between 30°C and 50°C

Q 14. Stainless steel pans are usually provided with copper bottoms. Why?

Q 15. A child has a viral infection and his body temperature is 101.5° F. Find the corresponding temperature in °C?

Q 16. (a) What is a laboratory thermometer.

(b) Which thermometer is used to measure very high temperatures?

Q 17. In boiling of water in a steel utensil by using a stove, describe the process of heat transfer.

Q 18. (i) How does the convection current form?

(ii) A hot utensil kept away from the flame cools down. How?

Q 19. For an astronaut working outside a spaceship, the greatest loss of heat would occur by means of which mode of heat transfer?

Q 20. Why should air coolers be kept higher up in the room, and not down like the heaters?