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English

Holiday Homework

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Unit 3

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Fill in the blanks

1. Heat transfer in solids takes place by _____.
2. Woolen clothes keep us warm by_____ air.
3. The _____ is the main source of heat and light on Earth.
4. Sea breeze blows from the _____ during the day.
5. The process of water soaking into the ground is called_____.
6. Materials like glass and wood are _____ of heat.
7. _____ does not need any medium to transfer heat.
8. _____ are layers of rocks that store groundwater.

Multiple Choice Questions (MCQs)

1. Which of the following is a good conductor of heat?
(a) Wood (b) Plastic
(c) Copper (d) Glass

2. In which form does the Sun transfer heat to Earth?
(a) Conduction (b) Radiation
(c) Convection (d) Evaporation

3. Which material will allow water to seep through the fastest?
(a) Clay (b) Sand
(c) Gravel (d) Cement

4. Which of the following is NOT an example of convection?
(a) Sea breeze (b) Land breeze
(c) Heating water in a pot (d) Feeling warm near a heater

5. What is the process of water soaking into soil called?
(a) Condensation (b) Evaporation
(c) Precipitation (d) Infiltration

6. What type of heat transfer takes place in solids?
(a) Radiation (b) Convection
(c) Conduction (d) Reflection

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True or False

1. Heat can travel through vacuum by radiation.
2. Convection happens in solids.
3. Dark surfaces reflect most of the heat.
4. Clay allows more seepage than gravel.
5. The water cycle helps in replenishing groundwater.

Questions Answer

Q1: How does the Sun help in the water cycle?

Ans: _____

_____

Q2: Why are cooking utensils made of metals?

Ans: _____

_____

Q3: What happens when air or water is heated?

Ans: _____

_____

Q4: Explain why tea remains hot in a porcelain cup for longer time.

Ans: _____

_____

Q5: What is radiation? Give one real-life example.

Ans: _____

_____

More Questions

Q1: What is the role of air in keeping us warm in winter clothing?

Ans: _____

_____

_____

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Q2: What are aquifers?

Ans: _____

_____

_____

Q3: Why does sea breeze occur during the day?

Ans: _____

_____

_____

Q4: Give examples where all three methods of heat transfer occur.

Ans: _____

_____

_____

Q5: What is the importance of aquifers?

Ans: _____

_____

_____

Q6: Why is heat transfer necessary in nature?

Ans: _____

_____

_____

Q7: How does convection help in boiling water?

Ans: _____

_____

_____

Q8: What is infiltration?

Ans: _____

_____

_____

Q9: How does the presence of air in hollow bricks help in insulation?

Ans: _____

_____

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Fill in the blanks

1. The SI unit of time is _____.
2. A simple pendulum completes one _____ in a fixed time.
3. _____ is the distance covered in unit time.
4. _____ means equal distance in equal time.
5. A _____ is used for precise measurement of time.

Multiple Choice Questions (MCQs)

1. Which of the following is NOT an ancient time measuring device?

A. Sundial
B. Water clock
C. Smartwatch
D. Hourglass

2. One oscillation of a pendulum is when the bob moves:

A. From one side to mean position
B. From mean to one extreme
C. From one extreme to other and back
D. None of these

3. The SI unit of speed is:

A. km/h
B. m/s
C. s
D. m/min

4. In uniform motion, an object:

A. Moves with increasing speed
B. Covers unequal distances
C. Moves with varying speed
D. Covers equal distances in equal time

5. The time period of a pendulum depends on:

A. Mass of bob
B. Shape of bob
C. Length of string
D. Material of bob

True or False

1. The time period of a pendulum depends on its mass.
2. SI unit of time is minute.
3. Sundial uses shadow to measure time.
4. Non-uniform motion means equal distance in equal time.
5. Pendulum clock was invented by Huygens.

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Short Answer Questions

Q1. What is a stopwatch and where is it used?

Ans: _____

_____

Q2. What is the function of a pendulum in clocks?

Ans: _____

_____

Q3. Why are atomic clocks considered very accurate?

Ans: _____

_____

Q4. What is meant by average speed?

Ans: _____

_____

Q5. Why do we need accurate measurement of time in sports?

Ans: _____

_____

Q6. How is time measured in modern devices?

Ans: _____

_____

Q7. Which type of clock was used in Buddhist monasteries in ancient India?

Ans: _____

_____

Q8. Why is a swing considered an example of a pendulum?

Ans: _____

_____

Q9. Why should we not push the pendulum while releasing it in experiments?

Ans: _____

_____

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Numericals Problems

1. A car covers 240 km in 4 hours. What is its speed?
Solution:

2. A runner completes 100 metres in 12.5 seconds. What is the speed in m/s?
Solution:

3. A train travels at a speed of 72 km/h. How much distance will it cover in 3 hours?
Solution:

4. Convert 36 km/h to m/s.
Solution:

5. A cyclist covers 15 km in 50 minutes. Find the speed in m/s.
Solution:

6. A vehicle moves at 90 km/h. How much time will it take to travel 180 km?
Solution:

7. A pendulum completes 20 oscillations in 32 seconds. Find its time period.
Solution:

8. A train travels 360 km in 5 hours. Find its speed in m/s.
Solution:

9. A sprinter runs at 8 m/s. How much distance will she cover in 25 seconds?
Solution:

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10. A man walks at a speed of 5 km/h. How far will he walk in 45 minutes?
Solution:

11. A bus takes 3 hours to travel 210 km. What is its average speed?
Solution:

12. A car moves at 60 km/h for 30 minutes. What distance does it cover?
Solution:

13. A train covers 500 m in 25 seconds. Find its speed in m/s and km/h.
Solution:

14. A person jogs 1200 m in 8 minutes. Find speed in m/s.
Solution:

15. A pendulum takes 15 seconds to complete 10 oscillations. Find time period.
Solution:

16. A train travels 120 km at 60 km/h and then 180 km at 90 km/h. What is its average speed for the entire journey?
Solution:

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17. A cyclist travels 20 km in the first hour, 30 km in the second hour, and 50 km in the third hour. What is the average speed?

Solution:

18. A car covers the first 2 km at 20 m/s and the next 3 km at 30 m/s. Find the average speed of the car in m/s.

Solution:

19. A pendulum makes 80 oscillations in 2 minutes. What is its time period?

Solution:

20. A train starts from rest and reaches a speed of 60 km/h in 2 minutes. If it accelerates uniformly, find the average speed and the distance covered.

Solution:

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