Transfer of Heat

ORAL QUESTIONS

A. Answer these questions orally.

- 1. Heat energy flows from a body at lower temperature to another at a higher temperature. True or false?
- 2. There are only two modes of transfer of heat-conduction and convection. True or false?
- 3. Which of these is the odd-one-out? Steel, copper, wood, aluminium, silver.
- 4. Which of the following are bad conductors of heat?

 (a) copper (b) iron (c) bakelite (d) plastic (e) thermocol
- 5. Is air a good or a bad conductor of heat?
- B. Complete the paragraph given below using the words from the given word box.

colder, land, towards, sea, day, land breeze, convection, upwards, sea breeze, lose, night, warmer, hot

During the	time, the	regions absorb more heat
than	water, making the land	The air above the
land also becomes he	otter than the air above the oceans.	
The	air from the land rises u	p and the
air from the sea, rus	shes towards the land to occupy th	he space left by the hot air. The
~~~	current from the sea to the land ca	auses
During the	, the land regions	heat faster than
sea water. The air ab	pove the sea is	than that above the land, Thus,
warmer air above the	e sea rises The	e colder air above the land rushes,
the sea to occupy the	space created. The convection curre	ent from the land to the sea causes

	C.	Try	to	answer.
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- 1. Name two devices that can let the heat flow from a lower temperature source to a higher temperature object.
- 2. What are the uniforms of firefighters made of?

PUZZLE/QUIZ

D. Find atleast six terms related to chapter Transfer of Heat. Write a few lines about them.

С	W	A	Y	Н	В	Z	F	F	Ι	С
0	0	С	Ο	Р	Р	Е	R	G	N	L
N	0	N	G	Ι	M	Н	Α	N	S	Α
D	L	A	V	Е	С	S	D	D	U	N
U	Z	В	S	Е	R	U	Ι	Е	L	D
С	U	Q	D	Q	С	Р	Α	L	A	В
Т	Y	V	Χ	T	W	Т	T	Z	T	R
0	R	Ι	Ι	J	С	0	Ι	K	О	E
R	J	Ο	K	Α	Ι	R	0	О	R	E
S	N	U	N	Т	N	Р	N	V	N	Z
S	Е	Α	В	R	Е	Е	Z	Е	M	Е

- C	
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CLASS TEST

E.	Very short answer questions.
1.	Name two good conductors of heat.
2.	Name two bad conductors of heat.
3.	Does convection occur in solids?
4.	Give examples of two natural phenomena showing convection.
5.	Which particles move up due to convection-hot or cold?
6.	What is thermal radiation?
F.	Short answer questions.
	Why does a steaming cup of coffee gets cold, if left lying on a table?
2.	Why does a bottle of chilled cold drink becomes warm when kept out of a refrigerator?
3.	Why does the handle of a large metal spoon becomes hot if left in the cooking vessel for sometime?

Choose good conductors and poor conductors of heat from the following: wood, ice, silver, gold, snow, air, rubber, plastic, copper, brass, wool, glass, paper, aluminiur				
GOOD CONDUCTORS OF HEAT	POOR CONDUCTORS OF HEAT			
Long answer questions. How does conduction occur in solids?				
How does convection occur in liquids?				
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What causes ocean currents?				

7T1 •	HOME ASSIGNMENT
	nk and answer. ma prefers to wear light coloured clothes in summers. Why?
Rah	ul tried to heat water from the top as shown in the figure alongside.
(a)	Will the water start boiling at the top?
(b)	Does the ice cube melt very easily?
(c)	Why do you think the ice-cube has been wrapped in a wire mesh?
(d)	Does the heat flow easily at the bottom of the test tube?
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(e)	What can you say about the conduction of heat by water?

WORKSHEET

I.	Give reasons for the following.
1.	Steel, copper and aluminium are used to make cooking utensils.
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2.	Bakelite is used to make handles of cooking utensils.
3.	Thermocol is used to make ice-box to carry ice.
4.	The room heaters are placed at or near the floors of the rooms.