EXERCISE

Page # 12

	EXEF	RCIS	E						
	OBJECTIVE QUESTIONS	8.	Durir	ng phys	sical an	nd chem	ical ch	anges :	
1.	Physical chemical changes are a result of		(A) e	nergy	is alwa	ys abso	rbed		
	absorption of :		(B) e	nergy	is alwa	ys relea	sed		
	(A) heat energy only		(C) n	o ener	gy is a	bsorbed	or rel	eased	
	(B) light energy only		(D) e	energy	is eithe	er absor	bed or	release	d
	(C) sound energy only								
	(D) some kind of energy	9.	A cha	nge is a	n alterai	tion in th	e physi	cal and ch	nemi-
_				-				effect of	
2.	A chemical change involves :		(A) li	ght					
	(A) change of state only		(B) h	eat					
	(B) change of colour only		(C) s	ome ki	nd of e	energy			
	(C) change of state as well as composition		. ,	oressur					
	(D) None of these		(-) P						
3.	A physical change is a/an :	10.	Physi	cal cha	anges a	are :			
	(A) temporary change		(A) p	erman	ent				
	(B) permanent change		(B) ii	rrevers	ible				
	(C) irreversible change		<mark>(C</mark>) t	empora	ary and	l irrever	sible		
	(D) None of these		(D) t	empara	ary and	l can be	e rever	sed	
4.	An example of a physical change is:			<mark>SUB</mark> JE	CTIVE	QUES	TIONS	5	
	(A) magnetisation of iron	1.	What	is cha	nge ? I	Explain	giving	exampl	e.
	(B) burning of wood								
	(C) photosynthesis by plants	2.	(i) D	efine a	chemi	cal char	nge.		
	(D) digestion of food		(ii) G	ive fou	ır exan	nples of	chemi	cal char	nge
5.	An example of a chemical change is :	2	Class	ify the	followi	ing char		fact or	clow
	(A) exposure of a photographic plate	3.	Classify the following changes as fast or slow changes :						
	(B) tearing of paper		(i) Germination of seed						
	(C) melting of sulphur		(ii) Milk changing to curd						
	(D) formation of dew		(iii) Burning of cooking gas in a gas stove						
			() -	Janning		Juliy gu	o ni a	940 000	
6.	An example of an undesirable change is :	4.	Defin	e and	exnlain	period	ic char	naes	
	(A) melting of snow on mountains		Denn		слріан	rpenou		igesi	
	(B) evaporation of water								
	(C) earthquake								
	(D) flowering of plants			_					
			ANSWER KEY						
-									
7.	An example of a periodic change is :	1.	D	2.	С	3.	А	4.	А
/.	An example of a periodic change is : (A) swinging of a clock pendulum								
/.		5.	А	6.	С	7.	А	8.	D
7.	(A) swinging of a clock pendulum								

EXERCISE

Page # 13

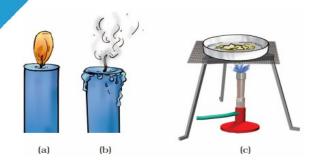
MULTIPLE CHOICE QUESTIONS

- Pick the change that can be reversed from the following 1. (a) Cutting of trees (b) Melting of ghee (c) Burning of candle (d) Blooming of flower 2. Which of the following change cannot be reversed? (a) Hardening of cement (b) Freezing of ice cream (c) Opening a door (d) Melting of chocolate An iron ring is heated. Which of the following statement about it is incorrect? 3. (a) The ring expands. (b) The ring almost comes to the same size on cooling. (c) The change in this case is reversed. (d) The ring changes its shape and the change cannot be reversed. While lighting a candle, Paheli observed the following changes 4. (i) Wax was melting. (ii) Candle was burning. (iii) Size of the candle was reducing. (iv) Melted wax was getting solidified. Of the above, the changes that can be reversed are (d) (i) and (iv) (a) (i) and (ii) (b) (ii) and (iii) (c) (iii) and (iv)
- 5. Salt can be separated from its solution (salt dissolved in water), because
 - (a) mixing of salt in water is a change that can be reversed by heating and melting of salt.
 - (b) mixing of salt in water is a change that cannot be reversed
 - (c) mixing of salt in water is a permanent change.
 - (d) mixing of salt in water is a change that can be reversed by evaporation.
- 6. Rolling of chapati and baking of chapati are the changes that
 - (a) can be reversed.
 - (b) cannot be reversed.
 - (c) can be reversed and cannot be reversed, respectively.
 - (d) cannot be reversed and can be reversed, respectively.
- 7. Iron rim is made slightly smaller than the wooden wheel. The rim is usually heated before fixing into the wooden wheel, because on heating the iron rim
 - (a) expands and fits onto the wooden wheel. (b) contracts and fits onto the wooden wheel.
 - (c) no change in the size takes place.

(d) expands first, then on cooling contracts and fits onto the wooden wheel.

VERY SHORT ANSWER QUESTIONS

8. Look at Fig. 2.1which shows three situation (a) a burning candle (b) an extinguished candle (c) melting wax.



Which of these shows a reversible change and why?

CHANGES AROUND US

- 9. A piece of iron is heated till it becomes red-hot. It then becomes soft and is beaten to a desired shape. What kind of changes are observed in this process– reversible or irreversible?
- 10. Paheli had bought a new bottle of pickle from the market. She tried to open the metal cap to taste it but could not do so. She then took a bowl of hot water and immersed the upper end of the bottle in it for five minutes. She could easily open the bottle now. Can you give the reason for this?

SHORT ANSWER QUESTIONS

- 11. Can we reverse the following changes? If yes, suggest the name of the method.
 - (a) Water into water vapour
 - (b) Water vapour into water."CHANGES AROUND US 35
 - (c) Ice into water.
 - (d) Curd into milk.
- 12. Which of the following changes cannot be reversed?
 - (a) Blowing of a balloon
 - (b) Folding a paper to make a toy aeroplane
 - (c) Rolling a ball of dough to make roti
 - (d) Baking cake in an oven
 - (e) Drying a wet cloth
 - (f) Making biogas from cow dung
 - (g) Burning of a candle
- 13. Boojho's sister broke a white dove, a symbol of peace, made of Plaster of Paris (POP). Boojho tried to reconstruct the toy by making a powder of the broken pieces and then making a paste by mixing water. Will he be successful in his effort? Justify your answer.
- 14. Tearing of paper is said to be a change that cannot be reversed. What about paper recycling?

LONG ANSWER QUESTIONS

- 15. Give one example in each case
 - (a) Change which occurs on heating but can be reversed.
 - (b) Change which occurs on heating but cannot be reversed.
 - (c) Change which occurs on cooling but can be reversed.
 - (d) Change which occurs on mixing two substances, but can be reversed.
 - (e) Change which occurs on mixing two substances, but cannot be reversed.
- 16. A potter working on his wheel shaped a lump of clay into a pot. He then baked the pot in an oven. Do these two acts lead to the same kind of changes or different? Give your opinion and justify your answer.
- 17. Conversion of ice into water and water into ice is an example of change which can be reversed. Give four more examples where you can say that the changes can be reversed.
- 18. Change of a bud into a flower is a change which cannot be reversed. Give four more such example.
- 19. Paheli mixed flour and water and (i) made a dough, (ii) rolled the dough to make a chapati, (iii) baked the chapati on a pan, (iv) dried the chapati and ground it in a grinder to make powder. Identify the changes (i) to (iv) as the changes that can be reversed or that cannot be reversed.
- 20. It was Paheli's birthday, her brother Simba was helping her to decorate the house for the birthday party and their parents were also busy making other arrangements. Following were the activities going on at Paheli's home:
 - (i) Simba blew balloons and put them on the wall.
 - (ii) Some of the balloons got burst.
 - (iii) Paheli cut colourful strips of paper and put them on the wall with the help of tape.
 - (iv) She also made some flowers by origami (paper folding)to decorate the house.

(v) Her father made dough balls.

(vi) Mother rolled the dough balls to make puries.

(vii) Mother heated oil in a pan.

(viii) Father fried the puries in hot oil.

Identify the activities at Paheli's home as those that can be reversed and those which cannot be reversed.

