MODEL QUESTION PAPER-

			SUE	BJECT: SCIE	NCE		Max.Ma	rks:80	
l.		Choose the correct answer.					8)	< 1=8	
	1.	The most suitable material for	ma	king the core of an electromagnet is					
		a)Brass b)Soft iron		c)Aluminiu	ım	d)Ste	el		
	2.	An exam[le of analogous organ	n is						
		a)our arm and a dog's foreleg		b)our teet	h and ar	n elephant tu	ısks		
		c)Potato and runners of grass		d)Birds wing and insects wing					
	3. If one of the metals is mercury, then the alloy is known as								
		a)Blend b)Amalgam		c)Soldering	g metal	d)Bra	ISS		
	4.	Male parts of the flower							
		a)Ovary b)pollen tube		c)Petals		d)Pollen gra	ains		
	5.	Which of the following is grow	th ir	hibitor of	olant?				
		a)Auxin b)Gibberlin		c)cytokine	n	d)Abs sic ac	id		
	6.	Which compound undergoes c	hen	nical decon	positio	n when expo	sed to sur	nlight	
		a)AgCl b)MgCl ₂		c)CaCl ₂	d)Na(Cl			
	7.	Triad rule is proposed by							
				c)Mendele		d)Mosle			
	8.		not	be corrected by using spectacles is					
		a)Cataract b)Myopia		c) Hyperm	etropia	d)Pre	sbyopia		
							0	1.0	
II.	0	Have in a valturation comment of	-ال د -د:					(1=8	
	9.	9. How is a voltmeter connected in the circuit to measure the potential difference betwee							
	10	two points? 10.In which place the Chipko movement took place for the first time?							
		.1.Before burning magnesium wire, it should be cleaned.Why?							
		12.Why do we apply paint on iron?							
		13. The sky looks black for an astronaut in space. Why?							
		14.List any two used of baking soda.							
		15. Name the products obtained during anaerobic respiration?							
		16.The refractive index of diamond is 2.42. What is the meaning of this sentence?							
III.		. The remactive mack of diamon	14 15	2.12. 1110	i is the i	incuming or th	ns serreer	8x2=16	
	17. When an object is placed 20cm from a concave mirror, a real image magnified three								
	times is formed.								
		a)find the image distance							
		b)focal length							
	18	18.a)Who proposed Modern Periodic law?							
		b)What was the basis of arranging the elements in it?							
		Or	•	•					
		How does metallic character a	nd i	onization e	nergy o	f an element	depend o	on the size of	
		an atom?							
	19	.What is thermite reaction? Wr	ite i	ts chemica	equation	on.			

a)Name the substance X and gas Y

is used in extinquishing fire.

b)Write a balanced equation of the reaction between X and hydrochloric acid.

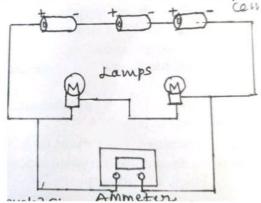
20.A substance X used as an antacid reacts with hydrochloric acid to produce a gas Y which

21. Differenciate 'overloading' and 'short cirucuiting'.

Or

Differenciate 'dynamo' and 'motor'.

22.A student made an electric circuit shown here to measure the current through two lamps. But he made some mistake in this circuit, correct it.



- 23. What trophic levels? Give an example of a food chain.
- 24. Can the wing of a butterfly and the wing of a bat be considered homologous organs? Why or why not?

IV. 9x3=27

- 25. Draw a labelled diagram of action of steam on a metal.
- 26. Give reasons.
 - a)Rain water conducts electricity but distilled water does not.
 - b)A tarnished copper vessel regains its shine when rubbed with lemon.

Or

Identify the acid and the base whose combination forms the common salt that you use in your food.

- i) Write it its formula and chemical name of this salt.
- Name the source from where it is obtained.
- 27. Anil is a car driver. One day he complained that he had difficulty in driving car because he could not see the distant traffic. He visited an eye hospital. The eye specialist checked and suggested to wear spectacles. Now he is able to see the distant vehicles, traffic.
 - a) Name the eye defect Anil is suffering from.
 - b) What type of lenses do you think have been recommended for his spectacles.
 - c) Do you think Anil has to wear these spectacles all the time say reading and reading.
- 28. Draw a neat labelled diagram of AC generator.
- 29.A blue colour flower plant denoted by BB is crossbred with a white colour flower plant denoted by WW.
 - a)State the colour of flower we would expect in their F₁ progeny.
 - b)Write the percentage of plants bearing white flower in F₂ generation when the flowers of F₁ plants were selfed.
- 30.a) Write two environmental consequences of the increasing demand for energy.
 - b) Which of the two is cleaner fuel: hydrogen or CNG.

Or

a)Write two limits of ocean(wave) energy.

b)Write two uses of nuclear energy.

31. What is regeneration and budding? Give example for each.

Or

What is pollination? How does it occur in plants? How does pollination lead to fertilization?

32. Reusing is better than recycling. Justify your answer by giving three reasons.

Or

List any three advantages associated with water harvesting at community level.

33.a) Why does the food get spoiled ?how it can be prevented?

b) How potato chips are prevented from getting spoiled in packets for so many days?

V. 4x4=16

34.a) Complete the following chemical equations.

ii)CH₃CH₂OH + NaHCO₃ →

b) Write the molecular formula and dot structure of ethane

Or

- a) Write the molecular and structural formula for the following hydrocarbons.
 - Carboxylic acid
 - ii) Propane
- b) Explain the process of cleaning action of soap.
- 35. Define the following with respect to spherical mirror.
 - a) Optical centre
- b)Centre of curvature
- c) Principal axis
- d) focal length
- 36.a) A person is taking insulin injection every day.
 - i) Name the disease he is suffering from.
 - ii) How does healthy life style help this patient to control this disease.
 - b) On touching a hot plate you suddenly withdraw your hand. Which category of neurons became active fast and which one next?
- 37.a) Distinguish between resistance and resistivity?
 - b)What would be the effect on the resistance of a metal wire of
 - i)increasing its length
 - ii)increasing its diameter.

VI. 1x5=5

38.a) Draw the diagram of cross-section of human heart and label the following parts.

i)Right Ventricle ii)Aorta iii)Left atrium iv)Pulmonary arteries

b) Arteries have thick elastic walls. Give reason.