

MARKING SCHEME		
Q NO	ANSWERS	MARKS
1	1 M HCl OR Sodium Hydrogencarbonate(NaHCO_3) or Magnesium Hydroxide(Mg(OH)_2)	1
2	Lead	1
3	The concentration of H^3O^+ ions decreases.	1
4	Li, Na, K	1
5	1:1	1
6	Direction of Current	1
7	Basic Oxides	1
8	Starch would not be converted into sugar	1
9	Correct diagram	1
10	Fission	1
11	Virtual	1
12	There is no particle in space to scatter sunlight	1
13	Compost, Recycling, Incineration, Landfill(any two)	1
14	D	1
15	C	1
16	A	1
17(i)	b	1*4=4
17(ii)	b	
17(iii)	C	
17(iv)	b	
17(v)	C	
18(i)	b	1*4=4
18(ii)	b	
18(iii)	c	
18(iv)	d	
18(v)	a	
19(i)	a	1*4=4
19(ii)	c	
19(iii)	a	
19(iv)	d	
19(v)	a	
20(i)	d	1*4=4
20(ii)	a	
20(iii)	a	
20(iv)	b	
20(v)	c	
21	P(6)-2,4 (Correct configuration-1 mark) Q(10)-2,8	2

	R(12)-2,8,2 S(17)-2,8,7 Correct bond formation between P and R(1 mark)	
22	Advantage(Any One) Disadvantage(Any One) OR Refraction (1mark) Correct Reason (1mark)	2
23	Correct Answer	2
24	(i)Wash vegetables and fruits properly with water. (ii)Organic substances should be used for cultivation.(Any 2 correct point)	1*2=2
25	(i)Increasing strength of current (ii)Increasing number of turns of wire OR (i)Current carrying conductor produces magnetic field around it (ii)Deflection increases with increase in current.	1*2=2
26	Statement of Fleming's Left Hand Rule.	2
27	(i)A yellow ppt of Lead Iodide(PbI ₂) is formed. (ii)Precipitation Reaction/Double Displacement Reaction. (iii) $Pb(NO_3)_2 + 2KI \rightarrow PbI_2 + 2KNO_3$	1*3=3
28	Reproduction is the ability of a living organism to produce new individual. It is essential for the purpose of (i)continuation of life on earth (ii)addition of new species (iii)replacement of dead organism (iv)transfer of variation from one generation to another (Any 3)	1*3=3
29	Correct Diagram (1 mark) Correct Labeling (1/2*4=2marks) OR Correct Answer (1.5*2=3marks)	3
30	Silver (1/2 mark) Correct Reason(1/2 mark) Nichrome (1/2 mark) Correct Reason(1/2 mark) Tungsten(1/2 mark) Correct Reason (1/2 mark)	3
31	Nature of A – Convex (1/2 mark) Nature of B –Concave(1/2 mark) $P=1/f = 1/0.1m=10D$ (1/2 mark) $P=1/f=1/-0.1m=-10D$ (1/2 mark) The object will be between the optical centre and principal focus of lens. Hence convex lens A will form virtual and magnified image of object. (1 mark)	3
32	(i)Because bubbles of hydrogen gas formed, stick to the surface of the metal and makes it lighter. (ii)HNO ₃ is strong oxidizing agent. It oxidizes H ₂ to H ₂ O (iii) $3Fe + H_2O \rightarrow Fe_3O_4 + 4H_2$	1*3=3
33	(i)Third Period (1mark)	1*3=3

	(ii)Valency of B is 3 (1/2 mark) Valency of D is 1 (1/2 mark) (iii)A ⁺ D ⁻ / AD (1 mark)	
34	(i)Photochemical Decomposition Reaction. (ii)Correct definition (iii)White to Grey (iv)2AgCl → 2Ag + Cl ₂ (v)Black and white Photography OR (i)Electrolytic Decomposition or Electrolysis (ii)At anode –Oxygen At cathode—Hydrogen (iii) Correct Explanation (iv) To conduct electricity through it. (v) 2H ₂ O → 2H ₂ + O ₂	1*5=5
35	(i)Correct explanation(2 marks) (ii)Correct explanation(2 marks) (iii)Rainbow formation(1 mark)	5
36	(i)Dialysis or Haemodialysis (1 mark) (ii)The process becomes essential in an individual suffering from complete renal failure.(1 mark) (iii) Correct Explanation.(3 marks)	5