	B.C.M SCHOOL BASANT AVENUE DUGRI ROAD LUDHIANA Class- X Subject- Science Answerkey of July Assignment Chapters- Acids, Bases and Salts Light- Reflection and refraction
	MCQ
1	d
2	d
	Assertion Reason
3	b
4	а
	Give answer
5	 (A) Yes, a convergent lens becomes divergent. When the refractive index of the medium is greater than the refractive index of material of lens. (B) use m=-v/u m=-n=-v/u ⇒ n=v/u ⇒ From mirror formula ⇒ 1/f=1/v+1/u ⇒ 1+u/v=u/f ⇒ 1+1/n=u/f ⇒ u=(n+1)f/n
6	a) Substance: Copper sulphate pentahydrate Formula: CuSO₄·5H₂O

	Phenomenon: Reversible change / dehydration and rehydration. (b)
	 Na₂CO₃·10H₂O – Sodium carbonate decahydrate (Washing Soda) CuSO₄·2H₂O – Copper sulphate dihydrate
7	 a) At Anode: Chlorine (Cl₂) At Cathode: Hydrogen (H₂) (b) Process: Electrolysis of brine (NaCl solution); called so as it breaks down using electricity. (c) 2NaCl(aq) + 2H₂O(l) → 2NaOH(aq) + Cl₂(g) + H₂(g)
8	Use turmeric indicator – it turns red in base and remains yellow in acid. Or use phenolphthalein if available: colourless in acid, pink in base.
9	(A) Give an antacid like baking soda solution or Eno.(B) Apply mild alkaline paste like baking soda.(C) Add basic substances like lime or wood ash to neutralize soil acidity.
	Case-Based Questions
10	1. Row d.
	U=-(50-26)=-24cm
	V=(90-50)=+40cm
	By using lens formula
	F=+15cm
	2. Since f=+15cm
	So when candle is placed at 2f or 30cm infront of lens it will produce real inverted same size image .
	3. No image will be seen on screen, as image formed will be virtual, erect.

4.Because convex lens forms real inverted image, when object is placed between f & 2f.