



**DELHI PUBLIC SCHOOL RUBY PARK, KOLKATA**  
**Revision question (Yearly exam) 2017-18**  
**Class – VII**

**Chap- Heat**

1. Define calorie and kilocalorie.
2. What is the SI unit of heat? State its relation with Calorie. Convert 40 J into Kcal.
3. What type of material is suitable for conduction of heat and why?
4. What is bimetallic strip? How is it related with 'thermostat'? Where do we use it?
5. Why mercury is used as a thermometric liquid?
6. Convert  $-40^{\circ}\text{C}$  into Kelvin scale.
7. Define the ice point and steam point of a temperature scale.
8. Why is the bottom surface of a cooking utensil made black?
9. How does the process of convection take place in nature? Explain with suitable example.
10. Why do we prefer white/light coloured clothes in summer and black or dark coloured clothes in winter?

**Chap-Electric circuit**

1. What are the factors to increase the strength of an electromagnet?
2. Why steel is not used in electromagnet?
3. State any two uses of an electromagnet.
4. What is overloading on an electrical circuit? How is the short circuit created? Name the device to prevent it.
5. How does current vary with the resistance in the circuit?

**Chap-Light/Light energy**

1. State the laws of Reflection (with diagram)
2. A light ray bounces off a rough surface----name the phenomenon. What difference do we observe if the similar happens from a smooth surface? Explain with suitable diagram
3. How is a plane glass mirror made? What are the characteristics of an ideal mirror?
4. How can you guess the type of a mirror to be plane or curve without touching?
5. With a suitable diagram explain centre of curvature, pole, focal length of a curve mirror.
6. What is the advantage of a convex mirror? State any two uses of this mirror.
7. What type of lens is Magnifying Glass? How does it work (explain with suitable diagram)
8. How is the rainbow formed in nature? Name the phenomenon.
9. Show the formation of image by a concave mirror for an object placed at infinity.
10. What do you mean by Primary colours of light? The moon appears yellow on a full moon day—why?
11. What is lens? Which phenomenon of light is used in lens? Define focal length of a lens.