

## Heat

(2 and 3 marks)

### Q 1 Give scientific reasons

1. The temperature of boiling water does not increase even if it is heated further.
2. The wounds caused by steam are more severe and painful than those caused by boiling water even though both have the same temperature
3. In places having cold weather, there are chances of water pipes getting burst during the winter season.
4. Ball of ice or gola is formed when small particles of ice or shredded ice is pressed between palms and then released.
5. In cold regions, fish can stay alive even after the lakes get frozen
6. Water droplets are formed on the outer surface of a bottle filled with cold drink when it is kept at room temperature.
7. Dew drops are formed at night during the winter season.
8. During the winter season, your spectacles become foggy when early in the morning, you enter a warm place after being out in the fog.

### Q. 2 Explain

1. The specific latent heat of melting is 80 cal/g. Explain this statement.
2. Explain the role of anomalous expansion of water in keeping the aquatic plants and creatures of cold regions alive in the frozen lakes.
3. Rocks crack into pieces due to the anomalous expansion of water.
4. During winters sometimes a white band can be seen in clear sky behind an aeroplane flying high up.