

Std :- X<sub>2</sub> \_\_\_\_\_  
Date :- 27.08.2018

III & IV Unit Test  
Subject :- Science & Tech-1

Marks: 20

Time :- 45 Min.

**Q.I. A. Fill in the blanks :-** [2]

1. The amount of water vapor in air is determined in term of its \_\_\_\_\_.
2. The change in \_\_\_\_\_ of light rays while going from one medium to another is called refraction.

**B. Define following:** [3]

1. Dispersion of light
  2. Specific latent heat of fusion
- Dew point

**Q.II Answer the following:** [4]

1. Distinguish between AC generator & DC generator
2. Explain the following. In cold regions in winter, the rocks crack due to anomalous expansion of water.

**Q.III Answer the following:** [6]

1. What is a solenoid? Draw a neat and labeled diagram of Electric motor.
2. Explain the use of following:
  - a) MCB Switches
  - b) Different types of fuses
  - c) Hope's apparatus.

**Q. IV Answer the following:** [5]

A) Prove the following statement. A rainbow is the combined effect of the refraction dispersion & total internal reflection of light?

B) Explain Fleming's right hand rule.

● Explain Right hand thumb rule.