

# M.L. Syal's Helix Institute

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## Syllabus of Scholarship cum Admission Test for Students studying in X and moving to XI for JEE (Main & Advanced)

### PHYSICS

- Light (except reflection) :  
Refraction through rectangular glass-slab, Lenses, Prism, Dispersion & Spectrum, Atmospheric refraction, Scattering
- Electricity (including Heating effects of current)
- Magnetic effects of currents

### CHEMISTRY

- Periodic classification of elements
- Carbon and its compounds (organic chemistry)
- Acids, bases and salts
- Metals and non-metals

### MATHEMATICS

- Quadratic equations
- Geometry
- Coordinate Geometry
- Trigonometry (i/c Heights & Distances)
- Mensuration
  - a. Areas related to circles
  - b. Surface areas and volumes
- Statistics

**NOTE :** There will be 75 objective type questions as mentioned below :

- a. 25 questions from Physics
- b. 25 questions from Chemistry
- c. 25 questions from Mathematics

Each question carries **four (4)** marks for correct answer and **minues one (-1)** mark for wrong answer.