

**SYLLABUS OF SCHOLARSHIP cum ADMISSION Test (26-12-2021)–Medical**  
(for Students studying in 10th and moving to 11th Medical for NEET)

Duration of Test : 1 hr. 50 minutes

Total Marks : 336

**Physics (24 questions)**

- **Light – Reflection and Refraction**

Reflection of light by curved surfaces; Images formed by spherical mirrors, centre of curvature, principal axis, principal focus, focal length, mirror formula, magnification. Refraction; Laws of refraction, refractive index. Refraction of light by spherical lens; Image formed by spherical lenses; Lens formula ; Magnification. Power of a lens.

- **Human eye and colourful world**

Refraction of light through a prism, dispersion of light, scattering of light, applications in daily life.

- **Electricity**

Ohm's law, Resistance, Resistivity, Factors on which the resistance of a conductor depends ; Series combination of resistors, parallel combination of resistors and its applications in daily life ; Heating effect of electric current and its applications in daily life ; Electric power, Interrelation between P, V, I and R

**Chemistry (24 questions)**

- **Chemical reactions and equations**

Chemical equation, Balanced chemical equation, implications of a balanced chemical equation, types of chemical reactions: combination, decomposition, displacement, double displacement, precipitation, neutralization, oxidation and reduction.

- **Acids, Bases and Salts**

Their definitions in terms of furnishing of  $H^+$  and  $OH^-$  ions, General properties, examples and uses, concept of pH scale, importance of pH in everyday life; preparation and uses of Sodium Hydroxide, Bleaching powder, Baking soda, Washing soda and Plaster of Paris.

- **Metals and non – metals**

Properties of metals and non-metals; Reactivity series; Formation and properties of ionic compounds.

**Biology (36 questions)**

- **Life processes**

Basic concepts of nutrition, respiration, transportation and excretion in plants and animals.

- **How do Organisms Reproduce**

Reproduction in animals and plants (asexual and sexual) ; Reproductive health-need and methods of family planning; Safe sex vs HIV/AIDS ; Child bearing and women's health

- **Our Environment (Ecosystem & Pollution)**

Eco-system ; Environmental problems, Ozone depletion, waste production ; Biodegradable and non-biodegradable substances

**Pattern of Test**

- The question paper will be in pen-paper format using OMR sheet at Helix Chandigarh.
- There will be **84** objective type single answer questions from Science.
- Each question carries **4** marks for correct answer.
- (-1)** mark will be deducted for incorrect answer.
- No mark will be awarded/deducted for unattempted questions.